SCE Textbook list

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Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	电气及PLC控制技术（西门子S7-1200） Electrical and PLC Control Technology (Siemens S7-1200)	徐锋, 陈涛	高等教育出版社	2021	48,60	ISBN:9787040554373	购买参考链接（电气及PLC控制技术（西门子S7-1200））	"电气及PLC控制技术"是高等职业教育机械电子工程、智能制造工程等工科类专业的技术基础课程。全书从便于初学学生理解和掌握角度出发，总体采用基于理实一体教学过程的方法编写。通过精心设计，把知识和岗位技术技能需要融入到十五个学习任务之中。采用项目教学、理论指导实践方式组织教材内容，在内容选取方面以"实用、必需"为出发点，内容多样，实用性强，重视应用训练和职业素养的培养。理论与实践结合，通过设计不同工作任务，巧妙地将理论知识点训练融入各个项目任务中，各个项目按照理论知识点与技术应用要求循序渐进编排，符合高职学生认知规律。本书注重实际、强调应用，结构合理、通俗易懂，注重学生职业技术技能的培养，是一本工程性较强的技术应用类教材。可作为职业本科、高职高专、成人教育等机构的机械电子工程、智能制造工程、机电一体化、机械设计制造及其自动化等相关专业的教学参考用书，也可作为PLC工程应用领域的工程技术人员的学习参考用书。"Electrical and PLC Control Technology" is a technical basic course for engineering majors such as mechanical and electronic engineering and intelligent manufacturing engineering in higher vocational education. From the perspective of facilitating the understanding and mastery of beginner students, the whole book is generally written based on the method of integrating theory and reality. It is carefully designed to integrate knowledge and on-the-job technical skills into fifteen learning tasks. The content of teaching materials is organized by project teaching and theoretical guidance and practice. And the content selection is based on "practical and necessary" with diverse contents and strong practicality, and attaches importance to applied technology training and professional quality training. Combining theory and practice, the theoretical knowledge point training is skillfully integrated into each project task through the design of different work tasks. Each project is arranged step by step according to the theoretical knowledge points and technical application requirements, which conforms to the cognitive law of higher vocational students. This book pays attention to practice,application and the cultivation of students' vocational and technical skills.With reasonable structure, it is a highly engineering technical application textbook. It can be used as a teaching reference book for mechanical and electronic engineering, intelligent manufacturing engineering, mechatronics, mechanical design and manufacturing and automation in vocational undergraduate education, higher vocational college, adult education and other institutions. It can also be used as a learning reference book for engineering and technical personnel in the field of PLC engineering applications.
	PLC应用技术（西门子） PLC Application Technology (Siemens)	史宜巧, 侍寿永	高等教育出版社	2016	39,80	ISBN:9787040461459	购买参考链接（PLC应用技术（西门子））	本教材主要以西门子S7-200 系列PLC为例，分5个模块共20个项目，较为详尽地介绍S7-200 PLC的基础知识、编程软件、位逻辑指令、数据处理指令、程序控制指令、模拟量指令、脉冲量指令、通信指令及其工程应用。每个项目都以"教学做"一体化模式编写，选题均来自于工业生产现场，并经过编写组精心设计教学项目，试做后编入教材，强调职业技能训练，注重职业能力培养。在项目实施中均配有电路原理图和控制程序，并使项目易于操作与实现，旨在让读者通过对本书的学习，尽快掌握S7-200 PLC的基本知识及编程应用技能。This textbook mainly takes Siemens S7-200 series PLC as an example, divided into 5 modules with a total of 20 projects to introduce the basic knowledge, programming software, bit logic instructions, data processing instructions, program control instructions, analog instructions, pulse instructions, communication instructions and their engineering applications of S7-200 PLC in more detail. Each project is written in the "teaching and doing" integration mode. The topics are selected from the industrial production site, and the writing team carefully designed the teaching project, and then compiled into the textbook after trial. It emphasized vocational skills training and vocational ability cultivation. Circuit schematic diagrams and control procedures are equipped in the project implementation in order to make the project easy to operate and implement. This book aimed at allowing readers to master the basic knowledge of S7-200 PLC and programming application skills as soon as possible via learning.
	PLC应用技术（西门子）〔第2版〕 PLC Application Technology (Siemens-2nd Edition)	史宜巧, 侍寿永	高等教育出版社	2021	45,00	ISBN:9787040529951	购买参考链接（PLC应用技术（西门子）（第2版））	本教材主要以西门子S7-200 系列PLC为例，分5个模块共20个项目，较为详尽地介绍S7-200 PLC的基础知识、编程软件、位逻辑指令、数据处理指令、程序控制指令、模拟量指令、脉冲量指令、通信指令及其工程应用。每个项目都以"教学做"一体化模式编写，选题均来自于工业生产现场，并经过编写组精心设计教学项目，试做后编入教材，强调职业技能训练，注重职业能力培养。在项目实施中均配有电路原理图和控制程序，并使项目易于操作与实现，旨在让读者通过对本书的学习，尽快掌握S7-200 PLC的基本知识及编程应用技能。This textbook mainly takes Siemens S7-200 series PLC as an example, divided into 5 modules with a total of 20 projects to introduce the basic knowledge, programming software, bit logic instructions, data processing instructions, program control instructions, analog instructions, pulse instructions, communication instructions and their engineering applications of S7-200 PLC in more detail. Each project is written in the "teaching and doing" integration mode. The topics are selected from the industrial production site, and the writing team carefully designed the teaching project, and then compiled into the textbook after trial. It emphasized vocational skills training and vocational ability cultivation. Circuit schematic diagrams and control procedures are equipped in the project implementation in order to make the project easy to operate and implement. This book aimed at allowing readers to master the basic knowledge of S7-200 PLC and programming application skills as soon as possible via learning.
	电气控制系统安装与调试项目教程（西门子系统） Electrical Control System Installation and Commissioning Project Tutorial (Siemens System)	汤晓华, 范其明, 蒋正炎	高等教育出版社	2018	38,00	ISBN:9787040503357	购买参考链接（电气控制系统安装与调试项目教程（西门子系统））	本书是高等职业教育"十三五"创新示范教材，职业教育"工程实践创新项目"应用课程系列教材之一，是全国职业院校技能大赛资源教学转化成果。本书主要内容以YL 158GA1型现代电气控制系统实训考核装置为载体，主选西门子系统（S7 300系列、S7 200SMART系列PLC）,构建了风机、绞车、X62W型铣床、T68型镗床、往复式抓棉机、混料罐、电火花切割机、自动剪板机、自动生产线、机场行李处理系统、刀具切割机、绕线机、立体仓库共13个电气制系统安装与调试或PLC改造项目。本书编写从工程实际入手，以了解、学习真实工程项目为目的，从大量真实工程项目中提炼出具有代表性的典型案例，由易到难，从单一到综合，完成现代电气控制技术的项目化实践教学。This book is one of the "Thirteenth Five-Year Planning" innovative demonstration teaching materials for higher vocational education, one of the series of teaching materials for the application course of "Engineering Practice Innovation Project" in vocational education, and the result of teaching transformation of resources of national vocational colleges and universities skill competition. The main content of this book takes YL 158GA1 modern electrical control system practical training assessment device as the carrier, mainly selects Siemens system (S7 300 series, S7 200SMART series PLC), builds 13 electrical control system installation and commissioning or PLC transformation projects including the fan, winch, X62W milling machine, T68 boring machine, reciprocating cotton catcher, mixing tank, EDM cutting machine, automatic shearing machine, automatic production line, airport baggage handling system, tool cutting machine, wire winding machine, airport baggage handling system, airport baggage handling system, airport baggage handling system, airport baggage handling system, tool cutting machine, winding machine, three-dimensional warehouse. This book is written from the actual engineering to understand the real engineering projects for the purpose from a large number of real engineering projects to extract a representative typical case. From easy to difficult and from a single to comprehensive, it completes the project-based practical teaching of modern electrical control technology.
	深入浅出过程控制——小锅带你学过控 Explain the Process Control in a Simple Way-XiaoGuo Takes you to Learn Process Control	张昕, 张贝克	高等教育出版社	2013	72,33	ISBN: 9787040382945	购买参考链接（深入浅出过程控制小锅带你学过控）	《深入浅出过程控制：小锅带你学过控》为"全国大学生'西门子杯'工业自动化挑战赛"技术组推荐教材，以多功能过程控制实训系统SMPT-1000为工程应用为主线，通过充满了故事、插图和对话的写作方式，配合真实的工作经历，将过程控制工程所需的知识娓娓道来，从被控过程的特性分析到基本控制方案和复杂控制方案的设计与实施，循序渐进，力求在内容安排上遵循实践教学的内在规律，既有利于工程实践，又有利于培养学生的创新精神。同时，《深入浅出过程控制：小锅带你学过控》结合典型的西门子过程控制系统PCS7，对过程控制项目所涉及的主要内容，按照项目实施过程分别加以介绍。书中贯穿各种游戏习题，力求最大程度地保持学生学习的热情和兴趣，通过反复强调учの学习成果牢牢巩固。"Simple Process Control: Small Pot Takes You to Learn Control" is a recommended textbook for the technical group of "Siemens Cup Industrial Automation Challenge for National College Students". It takes the engineering application of multifunctional process control training system SMPT-1000 as the main line, and through writing methods full of stories, illustrations and dialogues, and cooperating with real work experience, it explains the knowledge needed for process control engineering, from the analysis of the characteristics of controlled processes to the design and implementation of basic control schemes and complex control schemes, step by step, and strives to follow the inherent laws of practical teaching in content arrangement, which is beneficial to engineering practice and cultivating students' innovative spirit. At the same time, combined with the typical Siemens process control system PCS7, "Simple Process Control: Small Pot Takes You to Learn Control" introduces the main contents involved in the process control project according to the project implementation process. All kinds of game exercises run through the book, striving to keep students' enthusiasm and interest in learning to the greatest extent, and firmly consolidate the learning achievements through repeated emphasis.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	S7-300/400 PLC应用技术 第4版 S7-300/400 PLC Application Technology 4th Edition	廖常初	机械工业出版社	2016	75,00	ISBN:9787111535706	购买参考链接（S7-300/400 PLC应用技术 第4版）	本书曾荣获中国书刊发行行业协会2012-2013年度全行业畅销书奖，全面介绍了西门子S7-300/400 PLC的硬件结构和硬件组态、指令、程序结构、PID闭环控制、编程软件和仿真软件的使用方法，以及一整套易学易用的开关量控制系统的编程方法。介绍了西门子的各种通信网络和通信服务的组态和编程的方法、网络控制系统的故障诊断方法、用仿真软件在计算机上模拟运行和监控PLC用户程序的方法，以及通过仿真学习PID参数整定的方法。 This book has won the Best Seller Award of China Book Publishing Industry Association in 2012-2013. It comprehensively introduces the hardware structure and configuration of Siemens S7-300/400 PLC, instructions, program structure, PID closed-loop control, the use of programming software and simulation software, and a set of easy-to-learn and easy-to-use programming methods of switching value control system. This paper introduces the configuration and programming methods of various communication networks and communication services of Siemens, the fault diagnosis method of network control system, the method of simulating and monitoring PLC user program on computer with simulation software, and the method of learning PID parameter tuning through simulation.
	西门子S7-300 PLC应用教程 Siemens S7-300 PLC Application Tutorial	胡健	机械工业出版社	2012	29,25	ISBN: 9787111208167	购买参考链接（西门子S7-300 PLC应用教程）	本书系统阐述了S7-300系列PLC的工作原理、硬件结构、指令系统和STEP7V5.3专业软件包的使用方法。本书从工程实际出发，列举了大量应用实例，分类介绍了各种结构的程序设计方法，以及基于S7GRAPH语言的顺序功能图设计方法。最后还介绍了基于西门子PLC比通信网络的相关知识，并结合STEP 7详细介绍了MPI多点接口通信网络和PROFIBUSDP总线网络的组态及通信程序 的编写方法。本书是一本工程性较强的应用类教程，可作为高等院校电气工程及其自动化、工业自动化、机电一体化、生产过程自动化、电力系统自动化、工业网络技术等专业的教材，也可供工程技术人员自学和作为培训教材使用，对S7-300系列PLC的用户有很大的参考价值。 This book systematically describes the working principle, hardware structure, instruction system of S7-300 series PLC, and the usage of STEP7V5.3 professional software package. From engineering practice, this book gives a large number of application examples, introduces the programming methods of various structures in categories, as well as the sequential function diagram design methods based on S7GRAPH language. Finally, it also introduces the knowledge of Siemens Pbit communication network, and introduces in detail the configuration of MPI multi-point interface communication network and PROFIBUSDP bus network and the method of writing communication programs in combination with STEP 7. This book is a strong engineering application tutorial, which can be used as a textbook of electrical engineering and its automation, industrial automation, mechatronics, production process automation, power system automation, industrial network technology and other majors in higher vocational colleges, and can also be used by engineers and technicians for self-study and as training materials, and has great reference value for users of S7-300 series PLC.
	西门子S7-200PLC工程应用技术教程 Siemens S7-200PLC Engineering Application Technology Course	姜建芳	机械工业出版社	2013	34,00	ISBN: 9787111310976	购买参考链接（西门子S7-200PLC工程应用技术教程）	本书以西门子S7-200 PLC为教学目标机，在讨论PLC理论基础上，注重理论与工程实践相结合，把PLC控制系统工程 设计思想和方法及其工程实例融会到本书的讨论内容中，使本书具有了工程性与系统性等特点。便于读者在学习过程中理论联系实际，较好地掌握PLC理论基础知识和工程应用技术。 This book takes Siemens S7-200 PLC as the teaching target machine, on the basis of discussing PLC theory, pays attention to the combination of theory and engineering practice, and integrates the design ideas and methods of PLC control system engineering and its engineering examples into the discussion content of this book, which makes this book have the characteristics of engineering and systematicness. It is convenient for readers to integrate theory with practice in the learning process, and better master the basic knowledge of PLC theory and engineering application technology.
	S7-300/400 PLC应用教程 第3版 S7-300/400 PLC Application Course 3rd Edition	廖常初	机械工业出版社	2017	55,00	ISBN: 9787111542094	购买参考链接（S7-300/400 PLC应用教程 第3版）	本书全面介绍了西门子S7-300/400 PLC的硬件结构和硬件组态、指令、程序结构、PID闭环控制、编程软件和仿真软件的使用方法，以及一整套易学易用的开关量控制系统的编程方法。还介绍了西门子的各种通信网络和通信服务的组态和编程的方法、网络控制系统的故障诊断方法、用仿真软件在计算机上模拟运行和监控PLC用户程序的方法，以及通过仿真学习PID参数整定的方法。 This book comprehensively introduces the Siemens S7-300/400 PLC hardware structure and hardware configuration, instructions, program structure, PID closed-loop control, programming software and simulation software, as well as a set of easy-to-learn and easy-to-use switching control system programming methods. It also introduces the configuration and programming methods of various communication networks and communication services of Siemens, the fault diagnosis method of network control system, the method of simulating and monitoring PLC user program on computer with simulation software, and the method of learning PID parameter tuning through simulation.
	西门子S7-300/400PLC编程技术及工程应用 Programming technology and engineering application of Siemens S7-300/400PLC	陈海霞	机械工业出版社	2013	59,80	ISBN: 9787111366171	购买参考链接（西门子S7-300/400PLC编程技术及工程应用）	本书主要分为六大部分：第一部分是对S7-300及S7-400的系统概述，介绍了S7-300和S7-400的工作原理、硬件结构、安装配置 及模块特性，使读者对PLC系统的体系架构有一定的了解；第二部分介绍了STEP 7的编程环境、硬件组态及调试方法；第三部分介绍了基于IEC61131-1的编程语言及先进的编程的方法，顺序功能图（S7 Graph）和状态图（S7 HiGraph）；第四部分 分介绍了组织块和 系统功能块的作用；第五部分介绍工业网络通信的基本方法和人机界面的通信；第六部分介绍了工程设计步骤和两个工程实例。通过大量的实验案例和真实的工程实例学习和实践能融会贯通；通过实用编程技术的介绍，提供易于交流的平台和清晰的编程思路。 This book is mainly divided into six parts: The first part is a system overview of S7-300 and S7-400, introducing the working principle, hardware structure, installation configuration and module characteristics of S7-300 and S7-400, so that readers can have a certain understanding of the architecture of PLC system; The second part introduces the programming environment, hardware configuration and debugging method of STEP 7; The third part introduces the programming language based on IEC61131-1 and advanced programming technology: Sequential Function Diagram (S7 Graph) and State Diagram (S7 HiGraph); The fourth part introduces the functions of tissue block and system function block. The fifth part introduces the basic methods of industrial network communication and man-machine interface communication. The sixth part introduces the engineering design steps and two engineering examples. Through a large number of experimental cases and real engineering examples, learning and practice can be integrated; Through the introduction of practical programming technology, it provides an easy communication platform and clear programming ideas.
	西门子S7-1200 PLC编程与应用 Programming and Application of Siemens S7-1200 PLC	刘华波	机械工业出版社	2011	42,00	ISBN: 9787111349228	购买参考链接（西门子S7-1200 PLC编程与应用）	《西门子工业自动化系列教材：西门子S7-1200 PLC编程与应用》全面介绍了西门子公司新推出的s7-1200PLC的编程与应用。全书共分为9章，分别介绍了PLC的基础知识、硬件安装与维护、编程基础、基本指令、程序设计、结构化编程、精简面板组态、通信网络、工艺功能等。 "Siemens Industrial Automation Series Textbook: Siemens S7-1200 PLC Programming and Application" comprehensively introduced the new Siemens s7-1200PLC programming and application. The book is divided into 9 chapters, which respectively introduce the basic knowledge of PLC, hardware installation and maintenance, programming basis, basic instructions, programming, structured programming, simplified panel configuration, communication network, process functions and so on.
	S7-1500 PLC项目设计与实践 Design and Practice of S7-1500 PLC Project	姜建芳	机械工业出版社	2016	79,00	ISBN: 9787111535355	购买参考链接（S7-1500 PLC项目设计与实践）	本书以一个自动灌装生产线控制项目为例，按照项目设计的步骤，循序渐进，引导读者由浅入深地掌握S7-1500 PLC的硬件组态、软件编程、软硬件调试、上位监控系统及网络通信等内容。在S7-1500 PLC的工艺功能、系统诊断、高级语言编程和网页访问等内容也单独成章进行了介绍，并配有实例，旨在全新展示S7-1500 PLC的强大功能。 Taking an automatic filling production line control project as an example, this book guides readers to master the hardware configuration, software programming, software and hardware debugging, upper monitoring system and network communication of S7-1500 PLC step by step according to the project design steps. In the introduction of hardware and software of S7-1500 PLC, both engineers without S7 series PLC foundation and the differences with other S7 series PLC are emphasized, so that engineers with S7 series PLC foundation can quickly master S7-1500 PLC. This book also introduces the process function, system diagnosis, high-level language programming and web page access of S7-1500 PLC separately, with examples, aiming at showing the powerful functions of S7-1500 PLC brand-new.
	跟我动手学S7-300/400 PLC 第2版 Learn from me S7-300/400 PLC version 2	廖常初	机械工业出版社	2016	45,00	ISBN: 9787111538042	购买参考链接（跟我动手学S7-300/400 PLC 第2版）	本书强调通过实际操作进行学习。书中有五十个实训，随书光盘有多个新版中文软件、三十多个与正文配套的例程和三十多个多媒体视频教程。读者一边看书，一边根据实训的要求，用随书光盘中的编程软件和仿真软件在计算机上做仿真实验，就能快速掌握软件安装、硬件和网络组态、编程、监控、故障诊断、指令应用、程序结构、编程方法、通信、人机界面应用和PID控制等方面的知识和操作方法。 This book emphasizes learning through practical operation. There are 50 practical trainings in the book, and there are many new Chinese software, more than 30 routines matching with the text and more than 30 multimedia video tutorials on the CD with the book. Readers can quickly master the knowledge and operation methods of software installation, hardware and network configuration, programming, monitoring, fault diagnosis, instruction application, program structure, programming method, communication, man-machine interface application and PID control by using the programming software and simulation software in the CD attached with the book to do simulation experiments on the computer according to the requirements of practical training.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	S7-200 SMART PLC完全精通教程 S7-200 SMART PLC Complete Mastery Course	向晓汉	机械工业出版社	2013	56,00	ISBN: 9787111434429	购买参考链接（S7-200 SMART PLC完全精通教程）	本书从基础和实用出发，涵盖的主要内容包括S7-200 SMART系列PLC入门、PLC通信和变频器。全书分两个部分。第一部分为基础篇，主要介绍S7-200 SMART系列PLC的硬件和接线。STEP7-Micro/win SMART软件的使用、PLC的编程语言、编程方法与调试；第二部分为提高 与应用，包括PLC的通信、PLC在过程控制的应用、PLC在变频调速中应用和运动控制等。 This book from the basic and practical starting, covering the main contents including S7-200 SMART series of PLC introduction, PLC communications and frequency converters. The whole book is divided into two parts. The first part is the basic part, which mainly introduces the hardware and wiring of S7-200 SMART series PLC, the use of STEP7-Micro/win SMART software, the programming language, programming method and debugging of PLC; The second part is the improvement and application, including PLC communication, PLC application in process control, PLC application in frequency conversion speed regulation and motion control.
	WinCC组态技巧与技术问答 WinCC Configuration Skills and Technical Questions and Answers	李军	机械工业出版社	2013	59,00	ISBN: 9787111409298	购买参考链接(WinCC组态技巧与技术问答)	本书按照组态HMI系统的一般过程，系统地介绍了组态软件WinCC在创建HMI项目、组态HMI系统与控制器的通信链接、组态过程监控画面、组态消息系统、组态过程变量记录系统、组态数据报表系统等过程中涉及的基本概念、基本理论以及组态方法和组态技巧，对用户在应用WinCC时遇到的一些技术问题和难题进行了详细地分析并提出了有效的解决方法。 According to the general process of configuring HMI system, this book systematically introduces the basic concepts, basic theories, configuration methods and configuration skills involved in the process of creating HMI project, communication connection between configuration HMI system and controller, configuration process monitoring screen, configuration message system, configuration process variable recording system, configuration data report system, etc., and analyzes some technical problems and difficulties encountered by users when applying WinCC in detail and puts forward effective solutions.
	西门子WinCC V7从入门到提高 Siemens WinCC V7 from Entry to Improvement	向晓汉	机械工业出版社	2012	38,00	ISBN: 9787111394723	购买参考链接（西门子WinCC V7从入门到提高）	本书从基础和实用出发，涵盖的主要内容包括WinCC的功能和WinCC的组态方法。全书分三个部分，第一部分为入门篇，主要介绍WinCC的安装和卸载、项目的创建、组态画面、变量组态；第二部分为提高篇，包括WinCC的通信、报警记录、变量记录、报表、脚本和访问数据库；第三部分是一个工程应用实例。 This book from the basis and practical, covering the main contents including the functions of WinCC and WinCC configuration methods. The book is divided into three parts. The first part is an introduction, which mainly introduces the installation and uninstallation of WinCC, the creation of projects, configuration pictures and variable configuration; The second part is to improve the article, including WinCC communication, alarm records, variable records, reports, scripts and access to the database; The third part is an engineering application example.
	西门子S7-300/400 PLC工程应用技术 Engineering application technology of Siemens S7-300/400 PLC	姜建芳	机械工业出版社	2012	159,00	ISBN: 9787111394204	购买参考链接（西门子S7-300/400 PLC工程应用技术）	本书以西门子S7-300/400PLC为教学目标机，在讲解PLC理论的基础上，注重理论与工程实践相结合，把PLC控制系统工程设计思想和方法 及其工程实例融合到本书内容中，便于读者在学习过程中理论联系实际，较好地掌握PLC理论基础知识和工程应用技术。 This book takes Siemens S7-300/400PLC as the teaching target machine, on the basis of explaining PLC theory, pays attention to the combination of theory and engineering practice, and integrates PLC control system engineering design ideas and methods and engineering examples into the content of this book, which is convenient for readers to integrate theory with practice in the learning process and better grasp the basic knowledge of PLC theory and engineering application technology.
	西门子WinCC组态软件工程应用技术 Engineering Application Technology of Siemens WinCC Configuration Software	姜建芳	机械工业出版社	2016	59,80	ISBN: 9787111505433	购买参考链接（西门子WinCC组态软件工程应用技术）	本书以SIEMENS WinCC 7.0作为教学目标软件，在讲解组态软件基础知识的同时，注重理论与工程实践相结合，将组态软件控制技术的思想和方法以及工程实例融合到本书内容中，便于读者在学习过程中理论联系实际，较好地掌握组态软件基础知识和工程设计方法。 This book takes SIEMENS WinCC 7.0 as the teaching target software, while explaining the basic knowledge of configuration software, it pays attention to the combination of theory and engineering practice, and integrates the ideas and methods of configuration software control technology and engineering examples into the content of this book, which is convenient for readers to integrate theory with practice in the learning process and better master the basic knowledge of configuration software and engineering design methods.
	西门子工业通信工程应用技术 Application Technology of Siemens Industrial Communication Engineering	姜建芳	机械工业出版社	2016	59,80	ISBN: 9787111524809	购买参考链接（西门子工业通信工程应用技术）	本书结合工业工程应用讨论了西门子工业网络通信技术，用理论与工程应用技术相结合的方式讨论了全集成自动化体系中的SIMATIC NET部分，并把工业控制系统工程设计思想和方法及其工程实例融合到其中，便于读者在学习过程中理论联系实际，较好地掌握工业网络通信技术理论基础知识和工程应用技术。 本书全面介绍了西门子工业网络通信、通信协议、通信服务和通信组态编程与故障诊断。重点讨论了工业控制层应用广泛的MPI、PROFIBUS-DP和工业以太网通信技术及其通信原理、组态步骤以及编程方法。通过本书，读者能够系统全面地通过参考教学例程掌握工业网络通信技术和工程应用实现方法。 The book discusses Siemens industrial network communication technology in combination with industrial engineering application, discusses the SIMATIC NET part of the fully integrated automation system in the way of combining theory with engineering application technology, and integrates the design ideas and methods of industrial control system engineering and its engineering examples into it, which is convenient for readers to integrate theory with practice in the learning process and better master the basic theoretical knowledge and engineering application technology of industrial network communication technology. This book comprehensively introduces Siemens industrial network communication, communication protocol, communication service and communication configuration programming and fault diagnosis. The communication technologies of MPI, PROFIBUS-DP and industrial Ethernet, which are widely used in industrial control layer, and their communication principles, configuration steps and programming methods are emphatically discussed. Through this book, readers can systematically and comprehensively master the industrial network communication technology and engineering application implementation methods by referring to teaching routines.
	西门子PLC高级应用实例精解 第2版 Siemens PLC Advanced Application Example Explanation 2nd Edition	向晓汉	机械工业出版社	2015	59,80	ISBN: 9787111513933	购买参考链接（西门子工业通信工程应用技术）	本书从实用的角度出发，用实例讲解西门子S7-200/S7-1200/S7-300/S7-400 PLC的高级应用，包括梯形图的编写方法、PLC在过程控制中的应用、PLC在运动控制中的应用、PLC的通信及其通信模块的应用、PLC在变频器调速系统中的应用、PLC软件仿真和PLC故障诊断；用实际工程的开发过程详细介绍了每个实例，便于读者模仿学习；每个实例都有详细的软件、硬件配置清单，并配有接线图和程序。本书的配套资源中有重点内容的程序和操作视频资料。 From a practical point of view, this book explains the advanced application of Siemens S7-200/S7-1200/S7-300/S7-400 PLC with examples, including the compilation method of ladder diagram, the application of PLC in process control, the application of PLC in motion control, the application of PLC communication and its communication module, the application of PLC in frequency converter speed regulation system, PLC software simulation and PLC fault diagnosis; Each example is introduced in detail with the development process of practical engineering, which is convenient for readers to imitate and learn; Each instance has a detailed software and hardware configuration list, and is equipped with wiring diagrams and programs. In the supporting resources of this book, there are procedures and operating video materials with key contents.
	西门子S7-200 PLC编程及应用案例精选 第2版 Siemens S7-200 PLC Programming and Application Case Selection 2nd Edition	刘华波	机械工业出版社	2016	49,00	ISBN: 9787111536567	购买参考链接（西门子S7-200 PLC编程及应用案例精选 第2版）	本书以案例式教学为特色，通过41个项目讲解西门子S7-200 PLC的编程及应用。这些项目分为基本指令和功能指令两部分，分别介绍了位逻辑、定时器、计数器、程序控制、表处理、数据处理、中断、高速计数及高速脉冲输出等基础指令，以及配方、数据记录、面板、PID向导、通信、定位模块和称重模块等复杂功能，每个项目都给出了程序清单及注释，并进行点评。 This book is characterized by case-based teaching, explaining the programming and application of Siemens S7-200 PLC through 41 projects. These items are divided into two parts: basic instructions and functional instructions. They respectively introduce basic instructions such as bit logic, timer, counter, program control, table processing, data processing, interrupt, high-speed counting and high-speed pulse output, as well as complex functions such as formula, data recording, panel, PID wizard, communication, positioning module and weighing module. Each item gives a program list and comments, and makes comments.
	西门子WinCC V7基础与应用 Fundamentals and Applications of Siemens WinCC V7	甄立东	机械工业出版社	2011	45,00	ISBN: 9787111329022	购买参考链接（西门子WinCC V7基础与应用）	本书系统地介绍了SIEMENS HMI/SCADA软件WinCC V7.0的主要功能及其组态方法，着重介绍了WinCC V7.0版本新增加 的功能及特性。本书由浅入深，首先介绍了初级用户必须掌握的主要功能例如产品介绍、项目的建立、组态画面、组态变量及通讯、变量记录、报警记录、报表系统、脚本系统、文本库、用户管理和交叉索引。再有高级用户需要了解的Microsoft SQL Server2005、系统组态、全集成自动化TIA、开发 性、工厂智能选件、实际应用实例以及实际应用中常出现的问题及其解决方案。 This book systematically introduces the SIEMENS HMI/SCADA software WinCC V7.0 main functions and configuration methods, focusing on the WinCC V7.0 version of the newly added functions and features. This book from shallow to deep, first introduced the primary users must master the main functions such as product introduction, project establishment, configuration screen, configuration variables and communication, variable records, alarm records, report system, script system, text library, user management and cross-index. Then advanced users need to know about Microsoft SQL Server 2005, system configuration, fully integrated automation TIA, development, factory intelligent options, practical application examples, and problems and solutions in practical applications.

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	西门子SIMATIC S7 PLC 基础与应用案例 Basic and Application Cases of Siemens SIMATIC S7 PLC	[德]尤尔根·卡夫坦（Jürgen Kaftan）著 姚驰 译	机械工业出版社	2017	55,00	ISBN: 9787111564263	购买参考链接（西门子SIMATIC S7 PLC 基础与应用案例）	本书介绍了如何使用SIMATICS7-300控制器进行编程，并提供了相关案例和解决方案，内容包括：概述、PLC的分配、PLC的运作方法、程序处理与编程、逻辑运算、程序输入、创建瞬时脉冲、定时器功能、时钟发生器、计数器、比较器、练习实例、顺序控制系统、安全守则和解决方案示例。 This book introduces how to use SIMATICS7-300 controller for programming, and provides relevant cases and solutions, including: overview, PLC distribution, PLC operation methods, program processing and programming, logic operation, program input, creating instantaneous pulse, timer function, clock generator, counter, comparator, practice examples, sequence control system, safety rules and solution examples.
	深入浅出西门子WinCC V6：第2版 In-Depth and Easy-to-Understand: Siemens WinCC V6(2nd Edition)	西门子（中国）有限公司自动化与驱动集团	北京航空航天大学出版社	2004	59,00	ISBN: 9787810774925	购买参考链接（深入浅出西门子Wincc V6(附光盘2张)(第2版)）	本书是《深入浅出西门子自动化产品系列丛书》之一，系统地介绍了SIEMENS HMI/SCADA软件WinCC V6.0的主要功能及其组态方法，是学习WinCC V6.0的有益工具。本书分为基础篇和高级篇两大部分：基础篇内容涉及WinCC变量记录系统、报警记录系统、图形编辑器、报表系统、脚本系统和通讯系统等应用部分；高级篇内容包括WinCC客дев/服务器结构、全集成自动化、开放性、WinCC浏览器/服务器结构及工厂智能等应用部分。 本书附光盘2张，其内容包括交互式自学系统、演示版软件、样例工程和技术文档等。 本书可作为大专院校相关专业师生、电气设计及调试编程人员自学参考用。 This book is one of the series of In-Depth and Easy-to-Understand:Siemens Automation Products, which systematically introduces the main functions of SIEMENS HMI/SCADA software WinCC V6.0 and its configuration method. It is a useful tool for learning WinCC V6.0. The book is divided into two major parts: the basic part covers the application parts of WinCC variable recording system, alarm recording system, graphic editor, report system, scripting system and communication system; the advanced part covers the application parts of WinCC hostile machine/server structure, fully integrated automation, openness, WinCC browser/server structure and plant intelligence. This book comes with 2 CD-ROMs. Its content includes interactive self-learning system, demo version software, sample projects and technical documents. This book can be used as a reference book for self-study by teachers and students of related majors in higher vocational colleges, electrical design and debugging programmers.
	深入浅出：西门子S7-200PLC（第3版） In-Depth and Easy-to-Understand:Siemens S7-200PLC(3rd Edition)	西门子（中国）有限公司自动化与驱动集团	北京航空航天大学出版社	2007	49,00	ISBN:9787811241150	购买参考链接（现 深入浅出西门子S7-200PLC 第3版）	《深入浅出西门子S7-200PLC（第3版）》主要介绍西门子公司小型可编程序控制器S7-200 PIC的软件和硬件功能，以实用、易用为主线，涉及S7-200 PLC的方方面面；同时编者也将多年的宝贵使用经验贯穿内容始终，使读者能够有所借鉴。全书共分为4章：第1章是S7-200 PLC系统概述，主要介绍S7—200 PLC的硬件部分和通信功能；第2章主要介绍S7-200 PLC编程软件STEP 7-MiCro/WIN V4.0的使用和联机调试；第3章介绍S7-200 PLC的常用功能，并辅以简单的编程实例；第4章介绍S7-200 PLC与人机操作界面。 该书主要供大专院校师生、电气设计人员以及PLC编程调试人员等使用。 In-Depth and Easy-to-Understand:Siemens S7-200PLC(3rd Edition) introduces the software and hardware functions of Siemens' small programmable controller S7-200 PIC, with practical and easy-to-use as the main line, covering all aspects of S7-200 PLC. At the same time, the editors also put their valuable use experience throughout the content, so that readers can learn from it. The book is divided into four chapters: Chapter 1 is an overview of the S7-200 PLC system, mainly introducing the hardware parts and communication functions of the S7-200 PLC; Chapter 2 mainly introduces the use of the S7-200 PLC programming software STEP 7-MiCro/WIN V4.0 and online debugging; Chapter 3 introduces the common functions of the S7-200 PLC, and Chapter 3 introduces the common functions of S7-200 PLC and is supplemented by simple programming examples; Chapter 4 introduces the S7-200 PLC and the human-machine interface. This book can be used as a reference book for self-study by teachers and students of related majors in higher vocational colleges, electrical design and PLC programming and debugging personnel.
	PLC应用技术（西门子S7-1200）（附微课视频） PLC Application Technology (Siemens S7-1200) (with microlearning video)	赵春生	人民邮电出版社	2022	59,80	ISBN:9787115578167	购买参考链接(PLC应用技术（西门子S7-1200）（附微课视频）)	本书按"课题—任务"模式编写，以任务为载体，通过大量的实例介绍了完成该任务的S7-1200相关知识、硬件组态、软件编程、仿真运行和运行操作技能。全书共分为8个课题，由浅入深地介绍了西门子博途软件的应用、S7-1200的指令、通信、变频器和触摸屏应用技术，主要内容有S7-1200基础与博途软件入门、基本指令、顺序控制、扩展指令、扩展模块、通信、变频器和触摸屏的应用。 本书可作为机电类专业、工业自动化专业、电气专业及其相关专业的教材，也可供从事机电行业的工程技术人员自学及参考使用。 The book is written in a "topic-task" mode, with a large number of examples to introduce the S7-1200 related knowledge, hardware configuration, software programming, simulation and operation skills to complete the task. The book is divided into 8 topics, introducing the application of Siemens TIA Portal, S7-1200 commands, communication, inverter and touch screen application technology from shallow to deep, mainly covering S7-1200 basics and introduction to TIA, basic commands, sequence control, extended commands, extended modules, communication, inverter and touch screen application. This book can be used as a textbook for electromechanical, industrial automation, electrical majors and other related majors, as well as self-study materials for engineers and technicians working in the electromechanical industry.
	PLC技术应用 PLC Technology Applications	向晓汉	人民邮电出版社	2022	59,80	ISBN:9787115575210	购买参考链接(PLC技术应用)	本书以实际的工程项目作为"教学载体"，内容涵盖PLC、伺服驱动器和现场总线。具体内容包括学习编程软件TIA Portal、学习S7-1200 PLC的硬件系统、S7-1200 PLC的指令应用、S7-1200 PLC的程序结构与编程方法应用、S7-1200 PLC的工艺功能及其应用、S7-1200 PLC的通信应用、S7-1200 PLC的运动控制应用和S7-1200 PLC的工程应用。 本书是立体化教材，强调知识的实用性，重视培养学生的实践技能和激发学生的学习兴趣；每个项目配有典型、实用的例题和习题，供读者训练使用。既可以作为高等职业院校机械类、电气类专业的教材，也可以作为国家开放大学等有关专业的教材，还可以作为工程技术人员的参考用书。 This book uses actual engineering projects as the "teaching carrier", covering PLC, servo drives and fieldbus. The specific contents include learning the programming software TIA Portal, learning the S7-1200 PLC hardware system, S7-1200 PLC instruction application, S7-1200 PLC program structure and programming method application, S7-1200 PLC process function and its application, S7-1200 PLC communication application, S7-1200 PLC motion control application, and S7-1200 PLC engineering application. This book is a three-dimensional textbook, emphasizing the practicality of knowledge, attaching importance to cultivating students' practical skills and stimulating their interest in learning. Each project is equipped with typical and practical examples and exercises for training. It can be used as teaching materials for mechanical and electrical majors in higher vocational colleges, also as major teaching materials for national open universities and other related institutions, and as reference books for engineers and technicians.
	西门子Process Simulate运动模拟仿真实战 Siemens Process Simulate motion simulation hands-on	吴科龙	人民邮电出版社	2022	79,90	ISBN:9787115593054	购买参考链接(西门子Process Simulate运动模拟仿真实战)	本书基于实际工程案例，讲述工艺仿真的过程，从夹具到产线，再到整线运行，让读者从实际的案例中学习并掌握西门子Tecnomatix Process Simulate的使用方法。内容包括Process Simulate概述，夹具、机器人的定义与机构的创建，以及机器人搬运、机床上下料、机器人焊接、点焊工作站、码垛工作站的模拟仿真。 本书主要面向中高职院校机械制造、数控技术、机器人、汽车制造等专业的学生。此外，本书也可以作为汽车、钣金冲压、机床加工、搬运、码垛、机器人等工业自动化和智能制造行业从业者提升技能的参考书。 Based on actual engineering cases, this book describes the process of technique simulation, from fixture to production line and then to the whole line operation, allowing readers to learn and master the usage methods of Siemens Tecnomatix Process Simulate from actual cases. It includes an overview of Process Simulate, the definition of fixtures and robots and creation of mechanisms, as well robot handling, machine loading and unloading, robot welding, spot welding workstations, and the simulation of palletizing workstations. This book is mainly for students of mechanical manufacturing, CNC technology, robotics and automotive manufacturing in middle and higher vocational schools. In addition, this book can also be used as a reference book for practitioners in the automotive, sheet metal stamping, machine tool processing, handling, palletizing, robotics and other industrial automation and intelligent manufacturing industries to improve their skills.
	S7-200西门子PLC基础教程（第2版） S7-200 Siemens PLC Basic Tutorial (2nd Edition)	王淑英，赵建光	人民邮电出版社	2016	32,00	ISBN:9787115412867	购买参考链接(S7-200西门子PLC基础教程（第2版）)	本书针对高职高专学生的培养目标，按照机电类工作岗位，主要介绍了PLC基本指令、功能指令、程序设计和系统设计以及模拟量扩展模块的使用、变频器的使用、触摸屏的使用等几个与企业岗位相互对应的教学模块，以岗位为导向、任务为载体，将工作内容与理论知识密结合。 This book mainly introduces the PLC basic instructions, functional instructions, program design and system design and the use of analog expansion modules, the use of inverters, the use of touch screen and several other teaching modules corresponding to enterprise jobs, aiming at the training objectives of higher vocational colleges students according to the electromechanical post. It is job-oriented, and combine the work content with theoretical knowledge closely through tasks.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	智能制造控制系统编程与调试（S7-1200 PLC）（微课版）（配套活页实训工单） Intelligent Manufacturing Control System Programming and Debugging (S7-1200 PLC) (micro-course version) (with leaflet practical training work orders)	赵徽培, 罗赞如	人民邮电出版社	2022	59.80	ISBN:9787115579928	购买参考链接(智能制造控制系统编程与调试（S7-1200 PLC）（微课版）（配套活页实训工单）)	本书以西门子S7-1200 PLC为控制系统应用载体，利用典型的智能制造应用场景设计了基于工作过程的8个学习模块共14个任务。本书将编程基本概念、编程思路、调试技巧有机融入各任务，具体包括智能制造控制系统与编程软件、制造单元信号指示灯控制、PLC与工业机器人的通信控制、伺服运动控制、制造单元数控机床控制、智能仓储单元控制、智能制造单元SCADA系统开发、智能制造单元综合控制实例等内容。 本书结构紧凑、图文并茂，具有较强的可读性和实用性。本书不仅可作为高职高专智能控制技术、工业机器人技术、机电一体化技术的可编程控制类应用教材，还可作为相关工程技术人员的参考资料。 This book takes Siemens S7-1200 PLC as the control system application carrier, and uses typical intelligent manufacturing application scenarios to design 14 tasks based on 8 learning modules of the work process. The book will be programming the basic concepts, programming ideas, debugging skills into the tasks, including intelligent manufacturing control system and programming software, manufacturing unit signal indicator control, PLC and industrial robot communication control, servo motion control, manufacturing unit CNC machine control, intelligent storage unit control, intelligent manufacturing unit SCADA system development, intelligent manufacturing unit integrated control examples, etc. . This book has a compact structure, strong readability and practicality with excellent pictures and literary. It can not only be used as a programmable control class application textbook for intelligent control technology, industrial robotics and mechatronics technology in higher vocational colleges, but also as a reference material for related engineers and technicians.
	S7-200 SMART PLC应用技术（附微课视频） S7-200 SMART PLC Application Technology (with micro-course videos)	郭艳萍	人民邮电出版社	2019	52.00	ISBN:9787115506412	购买参考链接(S7-200 SMART PLC应用技术（附微课视频）)	本书以西门子S7-200 SMART PLC为例，从实际工程应用出发，以培养构建PLC控制系统所要求的知识和技能为主线，详细介绍了S7-200 SMART PLC硬件系统组成、基本指令和功能指令的应用、顺序功能图编程及应用、S7-200 SMART PLC的通信及应用、模拟量模块以及运动控制等内容。 Taking Siemens S7-200 SMART PLC as an example, this book introduces in detail the composition of S7-200 SMART PLC hardware system, application of basic and functional instructions, sequential function diagram programming and application, communication and application of S7-200 SMART PLC, analog modules and motion control from the perspective of practical engineering applications and cultivating the knowledge and skills required for building PLC control systems.
	西门子PLC自学手册S7 200微视频版(CD) Siemens PLC Self-Study Manual S7 200 Micro-Video Edition (CD)	岂兴明, 杨美美, 李艳生, 成俊霅	人民邮电出版社	2020	79.00	ISBN:9787115533197	购买参考链接(西门子PLC自学手册S7 200微视频版(CD))	本书主要介绍了西门子公司S7-200系列PLC的硬件系统、指令系统等基础知识，并详细讲解了编程软件的安装和使用方法、PLC控制系统的设计方法与步骤，然后通过9个综合实例介绍了S7-200系列PLC在控制领域的应用与开发方法。本书采用图表相结合的方法，并配有视频教学内容，使书中的内容通俗易懂又不失专业性。 This book mainly introduces the hardware system, instruction system and other basic knowledge of Siemens S7-200 series PLC, and explains in detail the installation and usage of programming software, PLC control system design methods and procedures. It introduces the application and development methods of S7-200 series PLC in the control field through 9 comprehensive examples. The book combines diagrams and text well, and is equipped with video teaching content, so that the contents of the book is easy to understand without losing professionalism.
	西门子PLC自学手册S7-300/400微视频版(CD) Siemens PLC Self-Study Manual S7-300/400 Micro-Video Edition (CD)	岂兴明, 杨美美, 李艳生, 成俊霅	人民邮电出版社	2020	69.00	ISBN:9787115532831	购买参考链接(西门子PLC自学手册 S7-300/400微视频版(CD))	本书主要介绍了西门子公司S7-300/400系列PLC的硬件组成、指令系统等基础知识，详细讲解了S7-300/400PLC软件（TIA博途）的安装和使用方法、PLC网络通信，最后结合交通灯控制应用、在步进电机控制系统中的应用和啤酒发酵自控制应用的实例讲解了其在实际生产生活中的应用开发方法。 This book mainly introduces the hardware composition, instruction system and other basic knowledge of Siemens S7-300/400 series PLC, explains in detail the installation and usage of S7-300/400 PLC software (TIA Portal), PLC network communication, and finally explains its application development method in actual production life with examples of traffic light control application, application in stepper motor control system and beer fermentation automatic control application.
	西门子S7 200PLC从入门到精通 Siemens S7 200PLC from Introductory to Mastery	岂兴明, 吴炜, 郑子都, 宋振国	人民邮电出版社	2019	99.00	ISBN:9787115511034	购买参考链接(西门子S7 200PLC从入门到精通)	本书主要介绍西门子公司S7-200系列PLC的硬件资源、指令系统等基础知识，并详细讲解了编程软件的安装和使用方法、PLC控制系统的设计方法与步骤，并通过10个综合实例介绍了S7-200系列PLC在控制领域的应用与开发方法。本书采用图表相结合的方法，使书中的内容通俗易懂又不失专业性。 This book mainly introduces the basic knowledge of hardware resources and instruction system of Siemens S7-200 series PLC, and explains in detail the installation and usage of programming software, the design method and steps of PLC control system, and introduces the application and development method of S7-200 series PLC in the control field through 10 comprehensive examples. The book uses a combination of diagrams and text, so that it is easy to understand without losing professionalism.
	西门子S7-300/400快速入门 Siemens S7-300/400 Quick Start	陈忠平	人民邮电出版社	2012	58.00	ISBN:9787115283160	购买参考链接(西门子S7-300/400快速入门)	本书从实际工程应用出发，以S7-300/400系列PLC为对象，讲解大中型PLC的基础与实际应用等方面的内容。书中介绍了S7-300/400系列PLC的硬件结构及安装方法、软件的使用、数字量控制系统梯形图的设计方法、模拟量及PID闭环控制、PLC在电动机基本控制线路中的应用、PLC改造机床控制线路的设计、PLC小系统的设计、PLC在工程中的设计与应用等内容。本书语言通俗易懂，实例实用性和针对性强，且每个实例均进行了软件仿真。 本书既可作为工程技术人员自学教材，也可作为高职高专、成人高校、本科院校的电气工程、自动化、机电一体化、计算机控制等专业教材。 This book starts from the practical engineering applications and takes S7-300/400 series PLC as the object to explain the basic and practical applications of medium and large PLC. The book introduces the hardware structure and installation method of S7-300/400 series PLC, the usage of software, the design method of ladder diagram of digital control system, analog and PID closed-loop control, the application of PLC in the basic control line of motor, the design of PLC to transform the control line of machine tool, the design of PLC small system, the design and application of PLC in engineering, etc. The book is easy to understand and each example is carried out software simulation with strong practicality and relevance. This book can be used as self-study teaching materials for engineers and technicians, as well as major materials for electrical engineering, automation, mechatronics, computer control and other majors in higher vocational colleges, adult colleges and universities.
	西门子S7-200/300/400 PLC 基础与应用 技术 Siemens S7-200/ 300/ 400 PLC Basics and Application Technology	孙承志, 徐智, 张家海	机械工业出版社	2009	42.00	ISBN: 9787111258988	购买参考链接（西门子S7-200/300/400 PLC 基础与应用）	本书主要介绍西门子S7-200 300 400 PLC的基础知识与应用技术。介绍了西门子PLC的软硬件组成、模块和编程指令。在IEC61131-3指令系统框架下，将西门子S7-200 300 400指令系统进行了统一，大部分指令的用法都结合了常用的典型应用实例。 This book mainly introduces Siemens S7-200 300 400 PLC basic knowledge and application technique, and Siemens PLC hardware and software components, modules and programming instruction.
	西门子S7-200 SMART PLC实例指导学与用 Siemens S7-200 SMART PLC Example Guide to Learn and Use	韩相争	电子工业出版社	2023	89.00	ISBN:9787121450297	购买参考链接（西门子S7-200 SMART PLC实例指导学与用）	本书以西门子S7-200 SMART PLC为讲解对象，着眼实际应用，在S7-200 SMART PLC硬件组成、软件应用和指令及案例的基础上，以开关量、模拟量、编码器和高速计数器应用，以及定位控制和通信控制的程序设计方法为重点，以能够设计实际的工控系统为最终目的，全面系统地讲解西门子S7-200 SMART PLC的编程技巧与综合应用，内容上循序渐进，由浅入深全面展开。 本书实用性强，图文并茂，不仅为初学者提供了一套有效的编程方法，还为工程技术人员提供了大量的编程技巧和实践经验，可作为广大电气工程技术人员自学和参考用书，也可作为高等工科院校、高等职业技术院校工业自动化、电气工程及自动化、机电一体化等相关专业的PLC教材。 This book takes Siemens S7-200 SMART PLC as the object of explanation, focusing on practical applications and based on the S7-200 SMART PLC hardware composition, software applications and instructions and cases, focusing on the application of switching, analog, encoder and high-speed counter, as well as positioning control and communication control programming methods, with the ultimate goal of being able to design practical industrial control systems. The book explains the programming skills and comprehensive applications of Siemens S7-200 SMART PLC in a comprehensive and systematic manner, with a step-by-step approach and a comprehensive coverage from shallow to deep. The book is practical and illustrated, providing not only a set of effective programming methods for beginners, but also a large number of programming skills and practical experience for engineers and technicians, and can be used as a self-study reference book for electrical engineers and technicians, as well as a PLC textbook for industrial automation, electrical engineering and automation, mechatronics and other related majors in higher engineering universities and higher vocational colleges.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	西门子S7-1500 PLC编程及应用 Siemens S7-1500 PLC Programming and Application	芮庆忠,黄诚	电子工业出版社	2023	59,00	ISBN:9787121448799	购买参考链接（西门子S7-1500 PLC编程及应用）	本书针对西门子S7-1500 PLC（以下简称S7-1500 PLC）的功能以实例的方式进行讲解，内容包括S7-1500 PLC硬件组成、博途STEP 7软件安装及操作方法、S7-1500 PLC编程基础知识、S7-1500 PLC编程指令、S7-1500 PLC数据块和程序块、触摸屏应用实例及仿真软件使用方法、模拟量及PID控制应用实例、以太网通信方法及其应用实例、S7-1500 PLC控制变频器应用实例、S7-1500 PLC运动控制应用实例、S7-1500 SCL应用实例、高效编程技术的应用实例、基于博途软件的PLC编程方法的项目实例、S7-1500与C#编程语言通信方法应用实例。本书中的实例基于工业应用经验，实操性强，语言通俗易懂。本书配有微课教程，有利于读者快速掌握S7-1500 PLC各功能的使用方法。本书可作为高等职业院校机电、自动化类专业的授课教材，也可作为企业及社会机构的培训教材，还可作为工程师的参考手册。 This book addresses the functions of Siemens S7-1500 PLC (hereinafter referred to as S7-1500 PLC) with examples, including S7-1500 PLC hardware components, TIA STEP 7 software installation and operation methods, S7-1500 PLC programming basics, S7-1500 PLC programming instructions, S7-1500 PLC data blocks and program blocks, touch screen application examples and simulation software usage, analog and PID control application examples, Ethernet communication method and its application examples, S7-1500 PLC control inverter application examples, S7-1500 PLC motion control application examples, S7-1500 SCL application examples, application examples of efficient programming technology, PLC programming method based on TIA project examples, application examples of communication methods between S7-1500 and C# programming language. The examples in this book are based on industrial application experience and are hands-on with easy-to-understand language. The book is equipped with a micro-course tutorial, which helps readers to quickly master the use of various functions of the S7-1500 PLC. This book can be used as a teaching material for electromechanical and automation majors in higher vocational colleges, also as a training material for enterprises and social organizations, and as a reference manual for engineers.
	西门子 S7-1200/1500 PLC 项目式教程——基于SCL和LAD编程 Siemens S7-1200/1500 PLC Project-based Tutorial - SCL and LAD-based Programming	周文军, 胡宁峪, 伍贤洪	电子工业出版社	2023	49,80	ISBN:9787121445897	购买参考链接（西门子 S7-1200/1500 PLC 项目式教程——基于SCL和LAD编程）	本书以工程创新型人才培养为定位，以提升岗位能力为主线，以课程教学结合实践应用为出发点，以能学辅教为宗旨，采取任务驱动的编写形式，深入浅出地帮助读者解决西门子S7-1200/1500 PLC学习和应用过程中的难题。本书精选了二十三个具有较高实用价值且易于教学实施的西门子S7-1200/1500 PLC应用案例，由易到难，由点到面，循序渐进地进行组织内容，力求知识点的完整、多样和新颖。 This book takes the training of engineering innovative talents as the orientation, the enhancement of job competence as the main line, the teaching of the curriculum combined with practical applications as the starting point, to learn to supplement the teaching as the purpose. It adopts the task-driven form of writing to help the reader solve the difficult problems in the learning and application of Siemens S7-1200/1500 PLC in an in-depth but simple manner. The book selects twenty-three Siemens S7-1200/1500 PLC application cases with high practical value and easy teaching implementation, from easy to difficult, from point to point, step by step to organize the content, and strive for the completeness, variety and novelty of knowledge points.
	可编程控制器应用技术项目式教程（西门子S7-1200） Programmable Controller Application Technology Project-based Tutorial (Siemens S7-1200)	王春峰, 段向军	电子工业出版社	2019	52,00	ISBN:9787121353024	购买参考链接（可编程控制应用技术项目式教程（西门子S7-1200））	本书以项目为载体讲述工业自动化控制技术的相关内容，侧重于理论知识与实践技能相融合，将相关的知识点和技能点融入到若干个项目任务中，旨在提升学生的学习效率，培养学生的综合应用能力。同时为适应信息化课堂教学需要，加入立体化多媒体教学资源，包括微视频、仿真动画等。 本书紧紧围绕工业自动化控制技术知识体系，依据自动化生产线所包含的低压控制柜、PLC控制系统、HMI、变频器和工业网络来编排内容。本书分为5个项目，每个项目包括项目导入、学习目标、任务描述、实训及评价等部分。 It focuses on the integration of theoretical knowledge and practical skills, integrating relevant knowledge and skills points into several project tasks, aiming to improve students' learning efficiency and cultivate their comprehensive application ability. At the same time, in order to meet the needs of information-based classroom teaching, three-dimensional multimedia teaching resources are added, including micro-video and simulation animation. The book is closely focused on the knowledge system of industrial automation control technology, based on the low-voltage control cabinet, PLC control system, HMI, inverter and industrial network included in the automation production line to arrange the content. The book is divided into 5 projects, each project includes project introduction, learning objectives, task description, practical training and evaluation and so on.
	电气控制及PLC应用技术（基于西门子S7-1200） Electrical Control and PLC Application Technology (based on Siemens S7-1200)	汤平, 李纯	电子工业出版社	2022	59,00	ISBN:9787121435485	购买参考链接（电气控制及PLC应用技术（基于西门子S7-1200））	本书以典型电气控制系统及西门子S7-1200 PLC为主要学习内容，系统地介绍低压电器、PLC、变频器、伺服系统、触摸屏、工业自动化网络等自动化系统的知识及典型应用。本书分为4个部分。第1、2部分系统地介绍了低压电器控制与西门子S7-1200 PLC技术的相关基础知识及应用技术，将这些知识碎片化成知识卡，共设计9个项目20个知识卡，既方便学生根据工作过程需要来学习，又不失知识的系统性和完整性，为工程应用打下坚实基础。第3、4部分将实训教活页化，设计30个实训卡，将常用的交流电动机控制、PLC编程组态及变频控制、运动控制、触摸屏控制、网络通信等典型应用包含其中，通过实操全面掌握电气控制、PLC控制与西门子博途软件的操作与应用。 This book takes typical electrical control systems and Siemens S7-1200 PLC as the main learning content, and systematically introduces the knowledge and typical applications of automation systems such as low-voltage electrical appliances, PLC, inverters, servo systems, touch screens, industrial automation networks, etc. The book is divided into four parts, parts 1 and 2 systematically introduce the basic knowledge and application technology of low-voltage electrical control and Siemens S7-1200 PLC technology. It fragments these knowledge into knowledge cards, with 9 projects and 20 knowledge cards designed to facilitate students to learn according to the needs of the work process, without losing the systemic and complete knowledge, and laying a solid foundation for engineering applications. Part 3 and 4 are loose-leaf practical training tutorials, design 30 practical training cards including common AC motor control, PLC programming configuration and frequency control, motion control, touch screen control, network communication and other typical applications, through hands-on comprehensive mastery of electrical control, PLC control and TIA operation and application.
	西门子S7-1200 PLC编程技术与应用工作手册式教程 Siemens S7-1200 PLC Programming Technology and Application Tutorial-Workbook Style	陈贵银, 祝福	电子工业出版社	2021	59,80	ISBN:9787121414671	购买参考链接（西门子S7-1200 PLC编程技术与应用工作手册式教程）	本书以S7-1200 PLC编程指令应用为主线，借助大量典型案例讲解PLC编程方法和技巧，介绍PLC、触摸屏、传感器与变频器等小型自动化系统的典型应用。本书将西门子S7-1200 PLC相关内容整合成6个模块，15个任务，细分成37个子任务，11个技能训练，模拟工作现场来学习。本书就如同工作手册一样，读者按照步骤去执行，就能灵活运用S7-1200 PLC控制器。 本书强调通过实际操作来学习，做完全部训练任务后，读者就能全面地掌握TIA博途软件的操作方法与S7-1200的编程技术及应用。本书可作为应用型本科、高职高专院校电气自动化技术、生产过程自动化技术、机电一体化技术、机械制造及自动化等专业的PLC课程教材，也可供从事PLC应用系统设计、调试和维护的工程技术人员自学或作为培训教材使用。 This book focuses on the application of S7-1200 PLC programming instructions, introduces the typical applications of PLC, touch screen, sensors and inverters for small automation systems with the help of a large number of typical cases explaining PLC programming methods and skills. The book integrates Siemens S7-1200 PLC related contents into 6 modules, 15 tasks, subdivided into 37 subtasks and 11 skills training, simulating the work site to learn. The book is like a workbook, the reader follows the steps to perform and will be able to use the S7-1200 PLC controller flexibly. The book emphasizes learning by doing. After doing all the training tasks, the reader will be able to fully master the operation of TIA and the programming techniques and applications of the S7-1200. This book can be used as a PLC course textbook for electrical automation technology, production process automation technology, mechatronics technology, machinery manufacturing and automation in applied undergraduate universities and higher vocational cooleges, and also for self-study or as a training material for engineers and technicians engaged in PLC application system design, commissioning and maintenance.
	智能逻辑控制器应用教程——基于西门子LOGO! Intelligent Logic Controller Application Tutorial - Based on Siemens LOGO!	郭荣祥, 张新等	电子工业出版社	2022	58,00	ISBN:9787121432439	购买参考链接（智能逻辑控制器应用教程——基于西门子LOGO!）	本书在概括性介绍微型PLC的基础上，重点介绍西门子公司的智能逻辑控制器LOGO!及其控制系统的硬件组成、编程指令和编程方法，并通过实验加以巩固，以提高实践能力。书中通过诸多类别众多的若干应用示例帮助理解和掌握智能逻辑控制器LOGO!的用法，并结合实例介绍编程软件LOGO!Soft Comfort创建程序和离线仿真的方法，以便在实际应用前通过编程软件进行程序的调试，或者在不具备实验条件的情况下仍能调试程序。 本书可作为应用型高等学校及职业技术类院校智能制造、控制类、电气类、电子信息类、机械类、环境工程类、矿业类、土木工程类等有关专业的教材，也可作为相关领域工程技术人员的参考用书。 Based on a general introduction to micro PLCs, this book focuses on the hardware components, programming instructions and programming methods of Siemens' intelligent logic controller LOGO! and its control system, and consolidates them through experiments to improve practical skills. The book helps to understand and master the usage of the intelligent logic controller LOGO! through several application examples of various types of instructions, and introduces the method of creating programs and offline simulation using the programming software LOGO!Soft Comfort with examples, so that the program can be debugged through the programming software before practical application, or without experimental conditions. This book can be used as a textbook for relevant majors of intelligent manufacturing, control, electrical, electronic information, mechanical, environmental engineering, mining, civil engineering, etc. in application-oriented universities and vocational colleges, or as a reference book for engineers and technicians in related fields.
	西门子S7-200 SMART PLC应用技术图解项目教程 Siemens S7-200 SMART PLC Application Technology Illustrated Project Tutorial	郑长山	电子工业出版社	2022	39,00	ISBN:9787121427480	购买参考链接（西门子S7-200 SMART PLC应用技术图解项目教程）	本书以西门子S7-200 SMART PLC为样机，从工程应用角度出发，以项目（共14个项目）为载体，突出实践性。本书含有知识点：S7-200 SMART PLC硬件与软件、编程基础、常用指令应用、以太网通信等。 本书的多数项目按照项目要求、学习目标、相关知识、项目解决步骤、巩固练习来编写。其中，项目解决步骤详细、图文并茂、标注清晰，内容深入浅出、注重动手实践、可操作性强。 本书可作为高等职业技术学院和各类职业技术学校电气自动化、机电一体化、工业机器人及机电维修等相关专业的教材，也可作为成人教育、社会技能培训及企业培训的教材，还可作为相关技能大赛的参考教材和从事PLC应用技术工作的工程技术人员的参考用书。 Taking Siemens S7-200 SMART PLC as a prototype, this book highlights practicality from the perspective of engineering applications and takes projects (14 projects in total)as a carrier. This book contains knowledge points: S7-200 SMART PLC hardware and software, programming fundamentals, common instruction applications, Ethernet communication, etc. Most of the projects in this book are written according to project requirements, learning objectives, relevant knowledge, project solution steps, and consolidation exercises. Among them, the project solution steps are detailed, illustrated and clearly labeled, and the content is in-depth but easy to understand, hands-on and operable. This book can be used as teaching materials for electrical automation, mechatronics, industrial robotics and electromechanical maintenance and other related majors in various vocational colleges, as well as teaching materials for adult education, social skills training and enterprise training, and as reference materials for related skills competitions, engineers and technicians engaged in PLC application technology.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	西门子S7-1200 PLC编程从入门到实战 Siemens S7-1200 PLC Programming from Introduction to Practice	李方园	电子工业出版社	2021	89,00	ISBN:9787121424144	购买参考链接（西门子S7-1200 PLC编程从入门到实战）	本书针对西门子S7-1200 PLC和博途软件进行了深入浅出的解说，共6章、31个实战案例，详细介绍了S7-1200 PLC独有的OB、FC和FB模块化编程，包括梯形图和结构化控制语言SCL，借助工业以太网技术，实现PROFINET IO、S7协议通信、MODBUS TCP通信和多种组态，完成变频、步进和伺服驱动功能，助力构建一体化智能控制平台。 本书图文并茂、案例纷呈，适合广大自动化技术人员、中高级电工人员作为工程指导用书，也适合高职院校的电气自动化技术、工业机器人技术、智能控制技术、机电一体化等相关专业作为辅助教材和指导书。 This book provides an in-depth explanation of the Siemens S7-1200 PLC and TIA, with 6 chapters and 31 real-world cases, introducing in detail the S7-1200 PLC's unique OB, FC and FB modular programming specifically, including ladder diagrams and structured control language SCL. With the help of industrial Ethernet technology, it achieves PROFINET IO, S7 protocol communication, MODBUS TCP communication and a variety of configuration, to complete the inverter, stepper and servo drive functions, to help build an integrated intelligent control platform. With rich illustrations and cases, this book is suitable for automation technicians and senior electricians as an engineering guide, as well as for electrical automation technology, industrial robotics, intelligent control technology, mechatronics and other related majors in higher vocational colleges as auxiliary teaching materials and guidance books.
	西门子S7-1200 PLC编程技术 Siemens S7-1200 PLC Programming Technology	工控帮教研组	电子工业出版社	2021	69,00	ISBN:9787121405877	购买参考链接（西门子S7-1200 PLC编程技术）	S7-1200系列PLC是西门子公司近年推出的小型PLC的核心产品，采用模块化和紧凑型设计，可执行快速、高度精确的自动化任务，因其卓越的产品性能，因此获得了越来越多用户的认可。 本书结合当前国家智能制造的发展方向，将西门子PLC编程技术与生产实践相结合，通过细致的理论讲授，丰富的工程案例，帮助读者达到学以致用的目的，符合当前职业教育的特点，特别适合西门子PLC的初学者，也可作为高等院校相关专业及企业相应岗位的教材。 S7-1200 series PLCs are the core products of small PLCs launched by Siemens in recent years. With their modular and compact design, they can perform fast and highly accurate automation tasks, and are gaining recognition from more and more users because of their excellent product performance. Combining the current development direction of national intelligent manufacturing, this book combines Siemens PLC programming technology with production practice. Through detailed theoretical lectures and rich engineering cases, it helps readers to achieve the purpose of applying what they have learned, which is in line with the characteristics of current vocational education and is especially suitable for beginners of Siemens PLC. It can also be used as a textbook for relevant majors in universities and corresponding positions in enterprises.
	西门子S7-1200 PLC应用技术项目教程（第2版） Siemens S7-1200 PLC Application Technology Project Tutorial (2nd Edition)	吴繁红	电子工业出版社	2021	57,00	ISBN:9787121402456	购买参考链接（西门子S7-1200 PLC应用技术项目教程（第2版））	本书以西门子S7-1200 PLC在生产实践中的典型应用为载体，以基于工作过程的项目化内容为主要介绍对象，按照项目应用模式编写。全书共12个项目，涵盖S7-1200 PLC简介、TIA博图软件的使用、仿真软件的使用、S7-1200 PLC的系统配置、硬件和网络组态方法、硬件设计与调试、基本指令及其应用、程序设计的方法、PLC的运动控制技术、以太网通信技术等方面的知识，综合了PLC、常用传感器、变频器、触摸屏和步进电动机等在小型自动化生产线中的典型应用。本书结构紧凑、图文并茂、内容丰富，具有极强的可读性和实用性。 本书不仅可作为高职高专、应用型本科相关专业的PLC应用教材，还可作为相关工程技术人员的参考书。 This book is based on the typical applications of Siemens S7-1200 PLC in production practice, with the main introduction of project-based content based on the work process, and written according to the project application model. The book contains 12 projects, covering the introduction of S7-1200 PLC, the usage of TIA and simulation software, the system configuration of S7-1200 PLC, hardware and network configuration methods, hardware design and debugging, basic instructions and their applications, methods of programming, PLC motion control technology, Ethernet communication technology and other aspects of knowledge, integrated PLC, commonly used sensors, frequency converters, touch screens and stepper motors in small automated production lines. The book is compact, rich in illustrations and content, with strong readability and practicality. This book can not only be used as a textbook for PLC application in relevant majors in high vocational colleges and application-oriented universities, but also as a reference book for relevant engineers and technicians.
	微视频详解西门子S7-1500 PLC Micro video detailing Siemens S7-1500 PLC	李长军, 王立启, 纪献平	电子工业出版社	2020	148,00	ISBN:9787121395215	购买参考链接（微视频详解西门子S7-1500 PLC）	本书采用图解的方式，结合微视频讲解，全面系统地介绍博途（TIA）V15软件及西门子S7-1500 PLC的组态、编程、仿真、应用，包括博途V15软件的安装、使用、库功能及西门子S7-1500 PLC的硬件、硬件设备组态、编程基础、常用指令、通信应用、GRAPH编程、人机界面应用、基本故障诊断功能、基本实例应用等内容。本书适合自动化领域的电气技术人员及大中专院校、技校、职业院校电气专业的师生阅读。 This book comprehensively and systematically introduces the configuration, programming, simulation and application of TIA V15 software and Siemens S7-1500 PLC in a comprehensive and systematic way, including the installation, use, library functions of TIA V15 software and Siemens S7-1500 PLC hardware, hardware device configuration, programming basics, common instructions, communication applications, GRAPH programming , HMI applications, basic troubleshooting functions, basic example applications, etc through illustrating pictures and micro-video explanation. This book is suitable for electrical technicians in the automation field and teachers and students of electrical majors in vocational colleges.
	西门子S7-1200PLC编程及应用 Siemens S7-1200 PLC Programming and Application	芮庆忠, 黄诚	电子工业出版社	2020	55,00	ISBN:9787121390814	购买参考链接（西门子S7-1200PLC编程及应用）	本书针对西门子S7-1200 PLC的功能进行实例式项目化讲解，内容包括控制器硬件的介绍和安装、编程软件的应用、指令、触摸屏编程、PID控制、变频器控制、伺服驱动器控制及通信等。本书选取的实例是基于工业应用经验总结的，实操性强，语言通俗易懂，为便于教学，本书配有微课教程，使读者可以快速掌握西门子S7-1200 PLC各类功能的使用方法。除此之外，本书还配有利于教学、方便教师展示的PPT、程序代码、动画等教辅资源。本书可作为高等职业院校机电、自动化类专业的授课教材，也可作为企业及社会机构的培训教材，还可作为工程师的参考手册。 This book provides an example-based project-based explanation of the functions of the Siemens S7-1200 PLC, including introduction and installation of the controller hardware, application of programming software, commands, touch screen programming, PID control, inverter control, servo drive control, and communication. The examples selected in this book are based on industrial application experience, with strong practicality and easy-to-understand language. To facilitate teaching, the book is equipped with a micro-course tutorial, so that readers can quickly master the use of various functions of Siemens S7-1200 PLC. In addition, the book is also equipped with PPT, program codes, animations and other teaching and learning resources which are beneficial to teaching and convenient for teachers to show. This book can be used as a teaching material for electromechanical and automation majors in higher vocational colleges, also as a training material for enterprises and social organizations and a reference manual for engineers.
	西门子S7-200 系列PLC应用技术（第3版） Siemens S7-200 Series PLC Application Technology (3rd Edition)	祝福, 陈贵银	电子工业出版社	2020	52,00	ISBN:9787121377044	购买参考链接（西门子S7-200 系列PLC应用技术（第3版））	本书从实用角度出发，分模块介绍了西门子S7-200系列PLC的应用，吸收了大量PLC教材的优点，内容翔实，案例丰富，适合初学者学习。全书共有7个模块，模块1介绍PLC的初步认识，包括PLC基础知识、硬件配置和STEP 7-Micro/WIN软件的使用；模块2介绍S7-200 PLC的数据、寻址方式和位指令系统等位指令知识和应用；模块3介绍数据处理功能指令的应用；模块4介绍程序控制类指令、步进顺序控制指令、中断处理指令和高速处理指令的功能和应用；模块5介绍模拟量处理功能的应用；模块6介绍PLC应用系统的设计步骤和程序设计方法；模块7介绍S7-200 PLC的通信基础知识、网络通信部件和通信功能指令、PLC和变频器之间通信的应用。本书可作为高职高专电气自动化、机电一体化等相关专业的教材，也可作为成人教育及企业培训的教材，还可作为从事PLC技术工作的工程技术人员自学用书。 From a practical point of view, this book introduces the application of Siemens S7-200 series PLC in modules, absorbing the advantages of a large number of PLC textbooks with informative contents and rich cases, suitable for beginners. There are seven modules in the book, module 1 introduces the preliminary understanding of PLC, including PLC basic knowledge, hardware configuration and the use of STEP 7-Micro/WIN software; Module 2 introduces the knowledge and application of bit instructions such as data area, addressing mode and instruction system of S7-200 PLC; Module 3 introduces the application of data processing function instructions; Module 4 introduces the functions and applications of program control-type instructions, step sequence control instructions, interrupt processing instructions and high-speed processing instructions; Module 5 introduces the functions and applications of program control instructions, step control instructions, interrupt processing instructions and high-speed processing instructions; Module 5 introduces the applications of analog processing functions; Module 6 introduces the design steps and program design methods of PLC application systems; Module 7 introduces the communication basics of S7-200 PLC, network communication components and communication function instructions, and the applications of communication between PLC and inverter. This book can be used as the teaching materials of electrical automation, mechatronics and other related majors in high vocational colleges, as the teaching materials of adult education and enterprise training, and as the self-study book for engineers and technicians working in PLC technology.
	西门子S7-1500 PLC 从入门到精通 Siemens S7-1500 PLC from Beginner to Master	李方园	电子工业出版社	2020	128,00	ISBN:9787121389849	购买参考链接（西门子S7-1500 PLC 从入门到精通）	本书以国内广泛使用的西门子S7-1500 PLC作为研究对象，按照读者的学习路径，由浅入深、循序渐进地介绍S7-1500 PLC的入门基础、硬件配置、程序基本架构、与触摸屏的综合编程、PROFINET通信功能、工艺指令编程和上位机WinCC RT控制等7部分内容，各部分内容有机结合、逐层深入、臻于完善。本书采用最新的博途V15及其以上版本讲述，不仅向下兼容，而且创新性地通过从入门到精通的39个实例及微课视频，使读者真正达到轻松学习的目的。本书深入浅出、图文并茂，不仅适合广大从事自动化、智能控制的技术人员阅读，还可作为高等院校相关专业的教材。 This book takes Siemens S7-1500 PLC, which is widely used in China, as the object of study, and introduces the beginning foundation of S7-1500 PLC, hardware configuration, basic program architecture, integrated programming with touch screen, PROFINET communication function, technical instruction programming and WinCC RT control of the upper computer in a step-by-step manner according to the learning path of the reader. The content of each part is organically combined, layer by layer, and perfected. This book uses the latest TIA V15 and above to tell, not only backward compatible, but also innovative through the 39 examples and micro-video from the beginning to mastery, so that readers can really achieve the purpose of easy learning. This book is not only suitable for automation and intelligent control technicians, but also as a textbook for related majors in higher education.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	图解西门子PLC、变频器与触摸屏组态技术 Illustration of Siemens PLC, Inverter and Touch Screen Configuration Technology	蔡杏山	电子工业出版社	2020	99,00	ISBN:9787121381478	购买参考链接（图解西门子PLC、变频器与触摸屏组态技术）	本书介绍了西门子PLC、变频器和触摸屏组态技术，主要内容有PLC入门、西门子S7-200 SMART PLC介绍、S7-200 SMART PLC编程软件的使用、基本指令的使用及应用实例、顺序控制指令的使用及应用实例、功能指令说明及使用举例、PLC通信、变频器的基本结构原理、西门子变频器的接线、操作与参数设置、变频器的典型应用电路、变频器与PLC的综合应用、西门子精彩系列触摸屏（SMART LINE）介绍、西门子WinCC组态软件快速入门、WinCC软件常用对象及功能的使用举例、用触摸屏操作和监控PLC实战。本书起点较低，内容由浅入深，语言通俗易懂，内容结构的安排符合读者的学习认知规律，本书可作为PLC、变频器和触摸屏组态技术的自学图书，也可作为职业院校电类专业的PLC、变频器和触摸屏组态技术教材。 This book introduces Siemens PLC, inverter and touch screen configuration technology. The main contents are introduction to PLC, introduction to Siemens S7-200 SMART PLC, use of S7-200 SMART PLC programming software, usage of basic instructions and application examples, use of sequence control instructions and application examples, functional instruction description and use examples, PLC communication, basic inverter Structure principle, Siemens inverter wiring, operation and parameter setting, typical application circuit of inverter, integrated application of inverter and PLC, introduction of Siemens wonderful series touch screen (SMART LINE), Siemens WinCC configuration software quick start, examples of common objects and functions of WinCC software use, operation and monitoring PLC with touch screen practical. This book is a low starting point, the content from shallow to deep, the language is easy to understand, and the arrangement of the content structure confirms readers' learning cognitive law. This book can be used as a self-study book of PLC, inverter and touch screen configuration technology, and also as a teaching material of PLC, inverter and touch screen configuration technology for electricity majors in vocational colleges.
	西门子PLC精通案例教程 Siemens PLC Mastery Case Tutorial	连硕教育教材编写组	电子工业出版社	2019	75,00	ISBN:9787121358630	购买参考链接（西门子PLC精通案例教程）	本书根据职业教育的特点，实现"做中学"和"学中做"相结合的教学理念，设计了七大教学项目，主要内容包括PLC运动控制技术概述、料车卷扬调速系统的变频调速控制、物品分选系统的位置控制、工业搅拌系统的PLC控制、钢铁生产脱硫吹氧系统的PLC网络控制、WinCC在矿井提升机控制系统中的应用和PLC控制系统的设计与实践。每个项目包含2～4个工作任务，项目内容包括学习目标、任务分配、任务实施、考核与评价等多个方面内容，并且提供知识储备。本书通过这个七个教学项目，将相关原理与实践相结合，使学生在实际操作中理解PLC的基本原理并掌握编程应用技巧。本书既可作为中职和高职工业机器人专业、机电专业、电子专业、自动化专业及机械专业的教材，也可作为企业的培训用书，还可作为广大PLC爱好者的自学参考书。 According to the characteristics of vocational education, this book realizes the teaching concept of combining" doing from learning" and "learning from doing" and designs seven teaching projects. It mainly including the overview of PLC motion control technology, frequency control of material car winch speed control system, position control of item sorting system, PLC control of industrial mixing system, PLC network control of steel production desulfurization blowing system, application of WinCC in mine hoist control system and design and practice of PLC control system. Each project contains 2 to 4 tasks including learning objectives, task assignment, task implementation, assessment and evaluation, etc., and provides knowledge preparation. Through these seven teaching projects, the book combines the relevant principles with practice, so that students can understand the basic principles of PLC and master the programming application skills in practical operation. This book can be used as teaching materials for robotics, electromechanics, electronics, automation and machinery majors in secondary and higher vocational colleges, as well as training books for enterprises, and self-study materials for PLC enthusiasts.
	西门子S7-200 SMART PLC编程技术 Siemens S7-200 SMART PLC Programming Technology	工控帮教研组	电子工业出版社	2018	56,00	ISBN:9787121350245	购买参考链接（西门子S7-200 SMART PLC编程技术）	全书共分11章，根据学习进度由浅入深编排内容。第1、2章主要讲解S7-200 SMART硬件选型、输入/输出接线及编程软件的应用。第3章开始讲解编程基础，包括PLC常用数据类型、数制之间的转换、S7-200 SMART提供了哪些存储区及各存储区的寻址方法、基本的位逻辑指令应用、定时器和计数器的应用。第4章讲解了顺序控制指令、跳转指令、循环指令、移位指令、传送指令、比较指令、转换指令、实时时钟指令、整数四则运算指令及子程序的应用等。第5～9章讲解了S7-200 SMART高级功能的应用，包括中断的应用、高速计数的应用、高速脉冲输出运动控制的应用、模拟量及PID应用、通信功能的应用。第10章讲解了S7-200 SMART控制系统的整体设计思路及注意事项。第11章作为选修内容，主要针对的是没有电气控制基础的人员，讲解了常用电气设备和传感器的原理及选型应用。 The book is divided into 11 chapters, and the contents are arranged from shallow to deep according to the learning progress. Chapters 1 and 2 focus on S7-200 SMART hardware selection, input/output wiring and programming software applications. Chapter 3 starts to explain programming basics, including PLC common data types, the conversion between the number system, S7-200 SMART provides which memory areas and the addressing method of each memory area, the application of basic bit logic instructions, the application of timers and counters. Chapter 4 explains sequence control instructions, jump instructions, loop instructions, shift instructions, transfer instructions, comparison instructions, conversion instructions, real-time clock instructions, integer quadrature instructions, and subroutine applications. Chapters 5 to 9 explain the application of S7-200 SMART advanced functions, including the application of interrupts, high-speed counting, high-speed pulse output motion control, analog and PID applications, and the application of communication functions. Chapter 10 explains the overall design ideas and considerations of the S7-200 SMART control system. Chapter 11, as optional content, is mainly for those who have no electrical control foundation and explains the principle and selection application of common electrical equipment and sensors.
	西门子S7-1200 PLC从入门到精通 Siemens S7-1200 PLC from Beginner to Master	李方园	电子工业出版社	2018	69,80	ISBN:9787121350177	购买参考链接（西门子S7-1200 PLC从入门到精通）	西门子S7-1200作为中小型PLC的佼佼者，无论在硬件配置上还是在软件编程上都具有强大的优势，尤其是基于以太网的编程和通讯特点，给S7-1200 PLC的应用带来了无限的想象力。本书按照S7-1200项目的创建、硬件的配置、控制指示灯、控制电动机、组态软件控制、运动控制、SCL编程、流程控制及以太网通讯的顺序讲述，不仅给出了编程技巧，而且列举了从简单到复杂、从入门到精通的538个实例项目。 Siemens S7-1200, as the leading small and medium-sized PLC, has strong advantages in both hardware configuration and software programming, especially the Ethernet-based programming and communication features, which bring unlimited imagination to the application of S7-1200 PLC. This book follows the sequence of the S7-1200 project creation, hardware configuration, control of indicators, control of motors, configuration software control, motion control, SCL programming, process control and Ethernet communication, giving not only programming tips, but also listing 38 example projects from simple to complex and from beginner to proficient.
	西门子S7-200 PLC轻松学 Siemens S7-200 PLC Easy Learning	黄义定	电子工业出版社	2018	49,00	ISBN:9787121338335	购买参考链接（西门子S7-200 PLC轻松学）	本书从初学者角度出发，通俗地描述了可编程逻辑控制器（PLC）的概念、应用领域、系统地阐述了西门子S7-200 PLC的工作原理，讲解了PLC控制系统的结构、设计方法和实际应用，介绍了S7-200 PLC的指令系统和编程软件的应用，最后简要介绍S7-200 PLC的网络通信知识。本书语言简练、通俗易懂，内容由浅入深、注重理论和实际应用相结合。书中附有PLC应用实例，所有程序序经调试运行。 This book describes the concept of programmable logic controller (PLC), application areas in layman's terms from the beginner's point of view, systematically explains the working principle of Siemens S7-200 PLC and the structure, design method and practical application of PLC control system, introduces the instruction system of S7-200 PLC and the application of programming software, and finally briefly introduces the network communication knowledge of S7-200 PLC. The book is concise and easy to understand. The content is from simple to deep, focusing on the combination of theory and practical application. The book is accompanied by PLC application examples, and all programs are debugged and run.
	PLC应用技术图解项目化教程（西门子S7-300）（第2版） PLC Application Technology Illustrated Project-based Tutorial (Siemens S7-300) (2nd Edition)	郑长山	电子工业出版社	2018	47,00	ISBN:9787121347191	购买参考链接（PLC应用技术图解项目化教程（西门子S7-300）（第2版））	本书以 SIMATIC S7-300 系列PLC 为样机，从工程应用角度出发，以项目为载体，突出实践性。全书共 20 个项目，除少数项目外，其余项目按照输入/输出信号器件分析、硬件组态、地址分配、画接线图、建符号表、编写程序、S7-PLCSIM 的仿真调试或WinCC调试、联机调试的工程步骤编写。本书图且典型、图文并茂、标注详细，适合初学者学习。本书可作为高等职业院校应用本科院校自动化、机电一体化、应用电子及机电维修等相关专业的教材，也可作为成人教育及企业培训教材，还可作为相关技能大赛参考教材和从事PLC 应用技术工作的工程技术人员自学用书。 This book takes SIMATIC S7-300 series PLC as the prototype, and highlights the practicality from the perspective of engineering application with the project as the carrier. There are 20 projects in the book, except for a few projects, rest of the projects are written according to the engineering steps: I/O signal device analysis, hardware configuration, address assignment, drawing wiring diagram, building symbol table, writing program, S7-PLCSIM simulation debugging or WinCC debugging, online debugging. This book has typical projects, rich illustrations and detailed labels, which is suitable for beginners. This book can be used as teaching materials of automation, mechatronics, applied electronics and electromechanical maintenance and other related majors in higher vocational colleges and application-oriented universities, and also as training materials for adult education and enterprises, and as reference materials for related skill competitions and self-study books for engineers and technicians engaged in PLC application technology.
	图解西门子S7-200 SMART PLC 快速入门与提高 Illustrated Siemens S7-200 SMART PLC Quick Start and Improvement	蔡杏山	电子工业出版社	2018	59,00	ISBN:9787121337024	购买参考链接（图解西门子S7-200 SMART PLC 快速入门与提高）	本书介绍了西门子S7-200 SMART PLC的硬件与软件编程，主要内容有PLC入门、西门子S7-200 SMART PLC介绍、S7-200 SMART PLC编程软件的使用、基本指令的使用及应用实例、顺序控制指令的使用及应用实例、功能指令说明及使用举例和PLC通信。本书可作为PLC、西门子S7-200 SMART PLC的自学图书，也适合作为职业院校电类专业的PLC技术教材。 This book introduces the hardware and software programming of Siemens S7-200 SMART PLC. The main contents are introduction to PLC, introduction to Siemens S7-200 SMART PLC, the usage of S7-200 SMART PLC programming software, the usage of basic instructions and application examples, the usage of sequence control instructions and application examples, description of functional instructions and examples of their use and PLC communication. The book has a low starting point whose content is from shallow to deep. The language is easy to understand, and the structure is arranged in accordance with the law of learning cognition. This book is suitable as a self-study book for beginners to learn PLC technology, and also suitable as a teaching material of PLC technology for electrical majors in vocational colleges.

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	西门子S7-1200 PLC应用技术项目教程 Siemens S7-1200 PLC Application Technology Project Tutorial	吴繁红	电子工业出版社	2017	45,00	ISBN:9787121319136	购买参考链接（西门子S7-1200 PLC应用技术项目教程）	该书分为基础篇和提高篇两部分。基础篇以西门子公司推荐的《小型自动化综合实训装置》为平台，以基于工作过程的项目组织教学内容，共包括12个项目，每个项目包括项目导入、项目分析、相关知识、项目实施、项目拓展和思考练习共6个部分。12个项目涵盖S7-1200PLC的硬件组态、硬件配置、硬件安装与调试；S7-1200PLC指令及其应用、程序设计的方法；G120变频器、触摸屏的组态及应用。提高篇YL235D简易自动化生产线为载体，共四个项目，包括S7-1200PLC为核心的传感器技术、异步电动机控制技术及以太网通讯技术等。 The book is divided into two parts: the basic part and the improvement part. The basic part is based on the platform of *Comprehensive Training Device for Small Automation* recommended by Siemens, and the teaching content is organized by work process-based projects, including 12 projects. Each project includes 6 parts: project introduction, project analysis, related knowledge, project implementation, project expansion and reflection exercise. 12 projects cover hardware configuration, hardware configuration, hardware installation and commissioning of S7-1200 PLC; S7-1200 PLC commands and their applications, programming methods; configuration and application of G120 inverter and touch screen. The 12 projects cover S7-1200 PLC hardware configuration, hardware configuration, hardware installation and commissioning; S7-1200 PLC instructions and their application, programming methods; G120 inverter, touch screen configuration and application. The improvement part YL235D simple automatic production line as a carrier, a total of four projects, including S7-1200PLC as the core of the sensor technology, asynchronous motor control technology and Ethernet communication technology.
	可编程控制器技术与应用（西门子系列）（第2版） Programmable Controller Technology and Applications (Siemens Series) (2nd Edition)	常辉	电子工业出版社	2017	27,00	ISBN:9787121315633	购买参考链接（可编程控制器技术与应用（西门子系列）（第2版））	本书是电子工业出版社职业教育电气自动化专业系列教材之一，充分体现了职业教育培养技能型人才的教学特色。本书主要以西门子S7-200 PLC为对象，以S7-200 PLC的应用技术为重点。全书共6章，主要内容有PLC基础知识、认识S7-200 PLC、PLC程序设计基础、PLC功能指令及应用、顺序控制的程序设计，以及PLC应用系统设计与实例。每章后均配有相应的习题供学习时使用。 本书可供电气自动化专业、机电控制技术专业、电子技术及应用专业、自动化仪表专业使用，也可作为工程技术人员的参考书。 This book is one of the series of teaching materials for electrical automation majors of Publishing House of Electronic Industry, which fully reflects the teaching characteristics of vocational education to cultivate skilled talents. This book mainly focuses on Siemens S7-200 PLC and the application technology of S7-200 PLC. It contains 6 chapters, mainly covering PLC basics, understanding S7-200 PLC, PLC programming basics, PLC functional instructions and applications, sequential control programming, and PLC application system design and examples. Each chapter is followed by corresponding exercises for use in learning. This book can be used by the majors of gas and electricity automation, electromechanical control technology, electronics technology and application, automation instrumentation, and also as a reference book for engineers and technicians.
	实例讲解西门子S7-200PLC从入门到精通 Examples of Siemens S7-200PLC from Beginner to Master	赵景波, 姜安宝, 管殿柱	电子工业出版社	2016	68,00	ISBN:9787121299179	购买参考链接（实例讲解西门子S7-200PLC从入门到精通）	本书以西门子S7-200 PLC为例，简要说明了S7-200 PLC的基本概念及编程软件的安装和使用，详细介绍了S7-200 PLC硬件系统、内部资源、梯形图和指令表指令，讲解了S7-200 PLC的编程、调试及系统设计，同时也详细介绍了S7-200 PLC的通信网络、人机交互、变频器、安装和维修的知识。书中各部分内容都是通过实例进行解的，并辅以大量的图表，通俗易懂，读者可以快速入门。 Taking Siemens S7-200 PLC as an example, this book briefly explains the basic concepts of S7-200 PLC and the installation and usage of programming software, introduces the S7-200 PLC hardware system, internal resources, ladder diagrams and instruction table instructions in detail, explains the programming, debugging and system design of S7-200 PLC, and also introduces the communication network of S7-200 PLC, the human-machine interaction, inverters, installation and maintenance of the S7-200 PLC specifically. Each part of the book is explained through examples and supplemented by a large number of diagrams, easy to understand, the reader can quickly get started.
	PLC应用技术与项目实践（西门子S7-300） PLC Application Technology and Project Practice (Siemens S7-300)	郁琰	电子工业出版社	2016	37,00	ISBN:9787121291074	购买参考链接（PLC应用技术与项目实践（西门子S7-300））	全书以S7-300为样机，以SIMATIC STEP7 v5.5软件为平台，从工程应用出发，以典型项目案例为媒介，按照"项目引导、任务驱动"为中心，将PLC的相关知识与技能划分为9个项目、31个任务之中，力争通过一系列项目的学习与训练，使学员逐步掌握S7-300/400 PLC硬件系统配置及硬件调试，STEP7软件的应用及仿真，PLC程序结构、LAD语言程序设计及系统调试，顺序功能图的结构、顺序功能图的设计及调试，PROFIBUS DP网络组态及网络调试的方法和技巧，并具备可编程控制器程序设计员(师)所要求的基本能力。 The book takes S7-300 as the prototype and SIMATIC STEP7 v5.5 software as the platform, divides the PLC-related knowledge and skills into 9 projects and31 tasks from engineering applications, with typical project cases as the medium in accordance with the "project-oriented, task-driven" as the center. It strives to train readers through a series of projects, so that learners can gradually master the S7-300/400 PLC hardware system configuration and hardware debugging, STEP7 software application and simulation, PLC program structure, LAD language program design and system debugging, the structure of sequential function diagram, sequential function diagram design and debugging, PROFIBUS DP network configuration and network debugging methods and skills, and have the basic ability required by the programmable controller designers.
	电气控制与PLC应用技术（西门子S7-200）（第2版） Electrical Control and PLC Application Technology (Siemens S7-200) (2nd Edition)	周开俊	电子工业出版社	2016	36,00	ISBN:9787121288326	购买参考链接（电气控制与PLC应用技术（西门子S7-200）（第2版））	本书从高职高专最新教学改革出发，根据当前社会对机电类人才技能结构的需求，结合编者多年的教学和工程实践经验编写而成，全面体现工学结合、教学做合一的理念。全书共分为5个单元，每个单元均由几个具体项目组成。本书以国内目前使用最普遍的异步电动机和S7-200 PLC为主要对象，详细介绍异步电动机拖动电路、普通机床电气控制、PLC硬件装置、PLC基本逻辑控制、顺序控制、功能控制、通信连接以及一些工业典型应用等。本书适合作为高职高专院校、成人高校、民办高校及本科院校举办的二级职业技术学院机械制造与自动化、数控技术、数控设备应用与维护、机电一体化技术、机电设备维修与管理等专业的教学用书，也可作为机电、电气等行业从业人员的参考书及培训用书。 This book is written from the latest teaching reform of higher vocational colleges, according to the current social need for the skill structure of electromechanical talents, combined with the editor's teaching and engineering practice experience, comprehensively reflecting the concept of combining engineering, teaching and doing. The book is divided into 5 units, each unit is composed of several specific projects. The book takes the most commonly used asynchronous motor and S7-200 PLC in China as the main objects, and introduces in detail the asynchronous motor dragging circuit, general machine tool electrical control, PLC hardware device, PLC basic logic control, sequence control, functional control, communication connection and some industrial typical applications. book is suitable as a teaching book for mechanical manufacturing and automation, numerical control technology, numerical control equipment application and maintenance, mechatronics technology, mechanical and electrical equipment maintenance and management in higher vocational colleges, adult colleges, private colleges and secondary vocational technical colleges held by undergraduate institutions, and also as a reference book and training book for practitioners in mechanical and electrical industries.
	西门子S7-300 PLC及工业网络基础应用 Siemens S7-300 PLC and Industrial Network Basic Applications	王舒华	电子工业出版社	2015	35,00	ISBN:9787121264108	购买参考链接（西门子S7-300 PLC及工业网络基础应用）	本书从实用角度出发，为学生讲述西门子S7-300/400 PLC应用技术、WinCC组态软件、MPI通信、PROFIBUS网络、工业以太网等专业知识，按照电气自动化技术专业应用岗位职业标准，依据实际岗位职责，按照学生职业能力培养的基本规律，以真实工作任务及其工作过程为依据整合教学内容，设计了5个由浅入深的项目，分别以西门子PLC应用、组态软件应用、工业网络设计、装调和设备联网监控为载体，将教、学、做有机融合，把理论学习和实践训练贯穿其中。本书以能力为本本，重视操作技能的培养，是集理论与实践为一体的专业课程教材。 From a practical point of view, this book tells students about Siemens S7-300/400 PLC application technology, WinCC configuration software, MPI communication, PROFIBUS network, industrial Ethernet and other professional knowledge. According to the vocational standards of electrical automation technology professional applied positions, the actual job responsibilities and the basic law of students' vocational ability training, the teaching content is integrated with five projects from shallow to deep based on real work tasks and their work process. Based on Siemens PLC application, configuration software application, industrial network design, installation and transfer and equipment networking monitoring, the book integrates teaching contents based on real work tasks and their work process, and designs 5 projects from shallow to deep, taking Siemens PLC application, configuration software application, industrial network design, installation and adjustment, and equipment network monitoring as carriers, which organically integrate teaching, learning and doing, and integrate theoretical learning and practical training. This book is a professional course textbook integrating theory and practice, which is competence-based and emphasizes the cultivation of operational skills.
	电气控制与PLC原理及应用（西门子S7-200系列）（第3版） Electrical Control and PLC Principles and Applications (Siemens S7-200 Series) (3rd Edition)	李道霖	电子工业出版社	2015	39,00	ISBN:9787121258428	购买参考链接（电气控制与PLC原理及应用（西门子S7-200系列）（第3版））	本书介绍了常用的低压电器，简单的液压传动元件及系统，继电接触器系统的基本电路，PLC的概述及工作原理，西门子S7-200系列PLC的系统构成，S7-200 PLC的基本指令、功能指令的功能和用法及应用实例，编程软件的使用，PLC的控制系统应用程序的设计方法和应用举例。 本书可作为电气自动化技术、机电一体化技术、电力系统继电保护与自动化等相关专业的教学用书。对于广大的电气工程技术人员是一本非常有价值的参考书和技术手册。 This book introduces common low-voltage electrical appliances, simple hydraulic drive components and systems, basic circuits of relay contactor systems, the overview and working principle of PLC, system composition of Siemens S7-200 series PLC, basic instructions of S7-200 PLC, functions and usage of functional instructions and application examples, the usage of programming software, design methods and applications of control system applications of PLC examples. This book can be used as a teaching book for electrical automation technology, mechatronics technology, power system relay protection and automation and other related majors. It is a valuable reference book and technical manual for electrical engineers and technicians.
	西门子S7-200PLC应用完全精通 Siemens S7-200PLC Application Complete Mastery	孙宏昌, 杨后川	电子工业出版社	2015	49,80	ISBN:9787121249839	购买参考链接（西门子S7-200PLC应用完全精通）	本书由基本技术（1-5章）和应用实践案例（6-21章）两部分组成。在基本技术部分中，主要介绍了可编程控制器S7-200的基础知识，包括可编程控制器的指令系统、编程方法、硬件特点和项目开发流程等。这些内容都为第二部分的实践应用奠定了理论基础。第二部分的应用实践案例由16章内容组成，每一部都会介绍一个典型案例。在此部分中介绍的案例都是以S7-200为控制核心的工程实践案例。 This book consists of two parts: basic technology (chapters 1-5) and application practice cases (chapters 6-21). In the basic technology part, the basic knowledge of the programmable controller S7-200 is introduced, including the instruction system, programming method, hardware features and project development process of the programmable controller. All these contents lay the theoretical foundation for the practical applications in the second part. The application practice cases in the second part consist of 16 chapters of content, and each chapter introduces a typical case. The cases introduced in this part are all engineering practice cases with the S7-200 as the control core.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	西门子S7-200 PLC功能指令应用详解 Detailed Explanation of Siemens S7-200 PLC Functional Instruction Application	韩战涛	电子工业出版社	2014	59,00	ISBN:9787121221989	购买参考链接（西门子S7-200 PLC功能指令应用详解）	本书详细介绍了西门子S7-200系列 PLC 程序设计和功能指令应用。为了使读者能够在较短的时间内正确理解、掌握和应用功能指令，书中除了对指令本身进行了详细的说明外，还增加了与功能指令相关的基础知识和应用知识。同时，针对指令的应用编写了许多实例来说明指令的应用技巧。按照本书的应用范例，读者可以快速掌握PLC在实际工作中的应用，有些实例还可以直接移植到工程中使用。 This book provides a detailed introduction to Siemens S7-200 series PLC programming and functional instruction application. In order to enable the reader to correctly understand, master and apply the functional instructions in a short time, the book adds the basic knowledge and application knowledge related to the functional instructions in addition to the detailed description of the instructions themselves. At the same time, many examples are written for the application of instructions to illustrate the application skills of instructions. According to the application examples in this book, readers can quickly master the application of PLC in the actual work, and some examples can be directly ported to the project.
	电气控制与PLC技术（西门子S7-200系列） Electrical Control and PLC Technology (Siemens S7-200 Series)	张艳	电子工业出版社	2013	27,60	ISBN:9787121205125	购买参考链接（电气控制与PLC技术（西门子S7-200系列））	本书采用项目引领、任务驱动式的编写模式，共分电气控制和PLC控制两大部分，电气控制部分以X62W型卧式万能铣床电气控制线路为例，主要介绍电气基本控制环节，以及整台机床的电气控制原理、安装接线与故障排除；PLC控制部分以西门子公司的S7-200PLC为机型，以物料分拣设备的PLC控制系统安装与调试为例，介绍PLC的结构、原理、功能和应用等有关理论和实践技能，通过具体控制项目对PLC控制程序的设计与编写方法进行详细的介绍。 This book adopts the project-led and task-driven writing mode, divides into two major parts: electrical control and PLC control. The electrical control part takes X62W horizontal universal milling machine electrical control circuit as an example, mainly introducing the basic electrical control links, as well as the electrical control principle of the whole machine tool, installation and wiring and troubleshooting; The PLC control part takes Siemens S7-200 PLC as a prototype, and takes the installation and commissioning of PLC control system of material sorting equipment as an example, introducing PLC structure, principle, function and application and other related theories and practical skills. It introduces in detail the design and writing method of PLC control program through specific control projects.
	机床电气控制与PLC技术（西门子系列） Machine Tool Electrical Control and PLC Technology (Siemens Series)	汪建武	电子工业出版社	2013	35,00	ISBN:9787121204517	购买参考链接（电气控制与PLC技术（西门子S7-200系列））	"机床电气控制与PLC技术"是机电一体化技术专业的必修课程之一，也是"双证融通"课程之一。本书培养学生安全用电，电器元件，识图与绘图，典型机床控制线路，机床PLC控制、调试与维护等专业知识和相关技能，比照维修电工国家职业标准，将教材内容分为"应知"和"应会"两大学习阶段。本书选用了最为常见的C650型车床、XA6132型万能铣床、Z3040型摇臂钻床和T68型卧式镗床等典型机床的控制线路，以及在机床领域市场占有率最高、也是最常见的S7-200/300作为PLC应用产品。 "Machine Tool Electrical Control and PLC T3chnology" is one of the mandatory courses for mechatronics technology majors, and also one of the "dual certification combination" courses. This book cultivates students to use electricity safely and professional knowledge and other related skills like electrical components, diagramming and drawing, typical machine tool control lines, machine tool PLC control, commissioning and maintenance. Compared to the national occupational standards for maintenance electricians, the textbook content is divided into "should know" and "should know "two major learning stages. This book chooses the most common C650 type lathe, XA6132 type universal milling machine, Z3040 type rocking arm drilling machine and T68 type horizontal boring machine and other typical machine tool control lines, as well as the highest market share in the field of machine tools, but also the most common S7-200/300 as PLC application products.
	可编程控制器PLC应用技术（西门子机型） PLC Application Technology for Programmable Controllers (Siemens Models)	施永	电子工业出版社	2013	29,80	ISBN:9787121201806	购买参考链接（可编程控制器PLC应用技术（西门子机型））	本书是可编程控制器（PLC）的入门教材。全书采用"项目教学"模式，以目前企业运用较广泛的西门子S7-200和S7-300系列PLC为蓝本，从技术应用的角度出发，由浅入深地设计了若干项目，并将知识点分散到各个项目中，使读者在完成项目的过程中掌握PLC控制系统的设计步骤、结构组成和控制原理，并逐渐掌握相关指令的基本用法、程序设计方法和系统的安装调试方法。 本书共分基本逻辑指令的应用、步进指令的应用、功能指令的应用和PLC综合应用四部分，所列举的项目大多来源于实际，力求通俗易懂，注重技术应用，实用性强，可作为中等职业技术学校电类、机电类及其他相关专业的教材，也可作为工程技术人员的培训教材或自学参考用书。 This book is an introductory textbook for programmable logic controllers (PLC). The book adopts the "project teaching" mode, taking the Siemens S7-200 and S7-300 series PLCs, which are widely used in enterprises, as the model. From the perspective of technical application, it designs several projects from shallow to deep, and spreads the knowledge points into each project, so that readers can master the design steps, structural components and control principles of PLC in the process of completing the projects, and gradually master the basic use of relevant instructions, program design methods and system installation and commissioning methods. This book is divided into four parts: application of basic logic instructions, application of step instructions, application of functional instructions and PLC integrated application. Most of the projects listed are actual, easy to understand, focusing on technical applications and practice. It can be used as teaching materials for electrical, electromechanical and other related majors in secondary vocational schools, and also as training materials for engineers and technicians or as reference books for self-study.
	西门子S7-200 PLC编程实例精解 Siemens S7-200 PLC Programming Examples in a Concise Manner	王阿根	电子工业出版社	2011	45,00	ISBN:9787121148668	购买参考链接（西门子S7-200 PLC编程实例精解）	本书以西门子S7-200型可编程控制器（PLC）为蓝本，书中介绍的130个编程实例，均是从作者长年潜心研究、反复推敲的实例中精心挑选出来的，具有很强的实用价值。实例设计时尽量考虑短小精悍，突出重点，每个编程实例都给出了较为详细的编程说明，以便于理解。细心阅读定可体验出其中的编程技巧和精妙之处。 This book is based on Siemens S7-200 programmable logic controller (PLC), and 130 programming examples introduced in this book are carefully selected from the examples that the author has studied and repeatedly worked on over the years, which have strong practical value. The examples are designed to be as short and concise as possible to highlight the key points, and each programming example is given a more detailed programming description to facilitate understanding. Each programming example is given a more detailed programming description to facilitate understanding. Careful reading will definitely experience the programming skills and subtleties.
	PLC应用技术（西门子S7-1200） PLC Application Technology (Siemens S7-1200)	孙琳	北京理工大学出版社	2023	85,00	ISBN：9787576318623	购买参考链接（PLC应用技术（西门子S7-1200））	本书紧贴岗位，围绕课程主旨，从工程开发的角度，系统地介绍了西门子S7-1200 PLC的硬件结构和组态、指令、博途软件的使用以及在综合案例中的典型应用。主要内容分为4个模块10个项目：S7-1200系统入门知识、S7-1200基础指令、S7-1200功能指令、S7-1200应用与提高。本书还在每一部分的编写中加入"电气控制系统安装与调试"全国职业技能大赛试题解析，扩展所学知识的深度和广度。本书注重实际，强调应用，可以作为电气自动化技术、机械制造及其自动化、机电一体化、工业自动化等相近专业的PLC教材，也可以供工程技术人员自学和作为培训教材。 This book is close to the job, around the main theme of courses systematically introduces the hardware structure and configuration and instructions of Siemens S7-1200 PLC from the perspective of engineering development. It also introduces the use of TIA Portal and the typical application in comprehensive cases. The main content is divided into 4 modules and 10 projects: S7-1200 System Introductory Knowledge, S7-1200 Basic Instructions, S7-1200 Functional Instructions, S7-1200 Applications and Enhancements. The book also includes "electrical control system installation and commissioning" of national vocational skills competition test problem analysis in each part of the preparation to expand the depth and breadth of knowledge. This book focuses on the practice, emphasizing the application. It can be used as PLC materials of electrical automation technology, machinery manufacturing and automation, mechatronics, industrial automation and other similar majors, but also for self-study and training materials for engineers and technicians.
	PLC编程与应用（西门子） PLC Programming and Application (Siemens)	程月，郭涛	北京理工大学出版社	2021	47,00	ISBN：9787576301144	购买参考链接（PLC编程与应用（西门子））	本书以图文并茂的形式介绍了西门子S7-1200系列PLC技术快速入门知识与综合应用，内容包括PLC基础知识认知、西门子S7-1200系列PLC介绍、Protal博途软件的安装与使用、PLC基本指令的功能及应用案例、功能指令的使用及实例、顺序控制指令使用详解、模拟量模块的使用、PLC通信、触摸屏与PLC的综合应用、PLC的综合应用。本书以专业知识为根基，同时将中华优秀传统文化融入课程，使学生在专业知识学习与思想政治教育相互促进、相得益彰。本书基础起点低，内容由浅入深，非常适合作为PLC、变频器和触摸屏技术的自学用书，也适合作为中、高职院校电气类专业的相关教材。 This book introduces Siemens S7-1200 series PLC technology quick start knowledge and comprehensive applications, including PLC basic knowledge cognition, introduction to Siemens S7-1200 series PLC, installation and use of TIA Protal, functions and application cases of PLC basic instructions, use of functional instructions and examples, detailed explanation of the use of sequence control instructions, the use of analog modules, PLC communication, integrated application of touch screen and PLC, and integrated application of PLC. This book takes professional knowledge as the foundation, while integrating the excellent Chinese traditional culture into the curriculum, so that students' professional knowledge learning and ideological and political education can be promoted and complemented. With a low basic starting point and content from shallow to deep, this book is ideal as a self-study book for learning PLC, inverter and touch screen technology, as well as a relevant textbook for electrical majors in middle and higher vocational institutions.
	自动化生产线装配与调试技术——基于西门子S7-200系列PLC Automatic Production Line Assembly and Commissioning Technology - based on Siemens S7-200 Series PLC	尹凌鹏	北京理工大学出版社	2019	54,00	ISBN：9787568272070	购买参考链接（自动化生产线装配与调试技术——基于西门子S7-200系列PL	《自动化生产线装配与调试技术：基于西门子S7-200系列PLC》以天煌自动化生产线THAL—2型实训设备为实操对象。它能够模拟一个与真实生产相类似的机械工业制造过程，适合自动化生产线装配、与调试能力的培养，适用于学生学习自动化生产线技术的实践操作练习，能够较好地培养学生的专业技术能力。 Automatic Production Line Assembly and Debugging Technology: based on Siemens S7-200 Series PLC" took Tianhuang automatic production line THAL— 2 type practical training equipment as a practical object. It can simulate a mechanical industrial manufacturing process similar to the real production, suitable for the training of automation production line assembly, and commissioning capabilities, suitable for students to learn the automation production line technology practice exercises, can better train students' professional and technical skills.
	西门子系列变频器及其工程应用 Siemens Transducer and Engineering Application	孟晓芳，李策等	机械工业出版社	2008	51,30	ISBN：9787111243281	购买参考链接（西门子系列变频器及其工程应用）	本书从实际应用的角度出发，详细地介绍了变频调速的基本理论知识、变频器的选择以及西门子几种变频器和实际应用。全书共分10章，包括绪论、变频器的原理与控制方式、变频器的选择、变频器控制原理图、MicroMaster4（MM4）系列变频器、SIMOVERT MASTERDRIVES工程型变频器、SINAMICS系列变频器、变频器的测量与实验以及变频器的安装、接线、日常维护和检修。 From the aspect of practical application, this book introduces basic theoretical knowledge of frequency conversion, choice of transducer and application of several types of Siemens transducer. The book consists of 10 chapters, including introduction, theory and control mode of transducer, choice of transducer, control theory chart, MicroMaster4 (MM4) series of transducer, SIMOVERT MASTERDRIVES engineering transducer, SINAMICS transducer, application of transducer, measurement, installation, connection, routine maintenance and overhauling of transducer.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	S7-300/400 PLC入门和应用分析 Introduction and Application Analysis of S7-300/400	邱道尹	中国电力出版社	2008	47,37	ISBN: 9787508361253	[购买参考链接（S7-300 400PLC入门和应用分析）](#)	本书是以应用广泛的西门子公司的S7-300/400系列PLC为对象编写的，全书共9章，分三个部分。第一部分为电器控制部分，包括第1、2章，主要介绍常用低压控制电器和电器控制线路。第二部分为编程设计基础，包括第3-6章，主要讲述可编程控制器基础、S7-300/400 PLC系统配置、指令系统和S7软件的编程环境。第7~9章为第三部分，主要介绍用户程序结构、网络通信和具体的应用实例。 This book is about Siemens S7-300/400 PLC. The introduction of electric control is benefit for learner to become a master of PLC programming, which integrates PLC controller and electric control technology. It has very detailed dictation system explanation, so the reader can easily master application of dictation. Besides, there are lots of application examples.
	西门子S7-1500 PLC从入门到精通Siemens S7-1500 PLC from IntroductIon to Proficiency	陈忠平, 刘桂林, 陈建忠, 刘静	中国电力出版社	2022	128,00	ISBN: 9787519869250	[购买参考链接（西门子S7-1500 PLC从入门到精通）](#)	本书共有9章，主要介绍了PLC的基础知识、S7-1500 PLC控制系统的硬件组成、S7-1500 PLC编程基础、S7-1500 PLC指令系统的使用及应用实例、S7-1500 PLC的用户程序结构、S7-1500 PLC数字量顺序控制编程和SCL编程、S7-1500的模拟量功能与PID控制、S7-1500 PLC的通信功能、PLC控制系统设计及实例等内容。 There are 9 chapters in this book, which mainly introduce the basic knowledge of PLC, the hardware composition of S7-1500 PLC control system, the programming basis of S7-1500 PLC, the use and application examples of S7-1500 PLC instruction system, the user program structure of S7-1500 PLC, the digital sequence control programming and SCL programming of S7-1500 PLC, the analog function and PID control of S7-1500 PLC, the communication function of S7-1500 PLC, the design and examples of PLC control system, etc.
	彻底学会西门子S7-200 SMART PLCLearn Siemens S7-200 SMART PLC thoroughly	韩相争	中国电力出版社	2019	79,00	ISBN: 9787519837112	[购买参考链接（彻底学会西门子S7-200 SMART PLC）](#)	本书以西门子S7-200 SMART PLC为讲授对象，以S7-200 SMART PLC硬件组成、软件应用和常用的指令及案例为基础，以开关量、模拟量、运动量和通信控制的程序开发方法为重点，以能够设计实际的工控系统+终目的，全面系统地讲述了西门子S7-200 SMART PLC的编程技巧与工程应用。本书着眼于实际应用，内容上循序渐进，由浅入深全面展开。 This book takes Siemens S7-200 SMART PLC as the teaching object, based on S7-200 SMART PLC hardware composition, software application and commonly used instructions and cases, focusing on the program development methods of switching value, analog value, movement value and communication control, and aiming at designing actual industrial control system +, comprehensively and systematically tells the programming skills and engineering application of Siemens S7-200 SMART PLC. This book focuses on practical application, and its content is gradual and comprehensive from shallow to deep.
	西门子S7-200 PLC编程从入门到精通（第二版） Siemens S7-200 PLC Programming from Getting Started to Proficient (2nd Edition)	赵江稳	中国电力出版社	2022	58,00	ISBN: 9787519865092	[购买参考链接（西门子S7-200 PLC编程从入门到精通（第二版））](#)	本书共8章，介绍了PLC基础、S7-200 PLC的硬件组成及选用基础、STEP7、Micro/WIN编程软件、S7-200 PLC的指令系统、S7-200 PLC系统设计、S7-200 PLC应用设计、S7-200 PLC的通信及网络和S7-200 PLC与人机界面及附录等。 There are 8 chapters in this book, which introduce PLC foundation, S7-200 PLC hardware composition and selection foundation, STEP7, Micro/WIN programming software, S7-200 PLC instruction system, S7-200 PLC system design, S7-200 PLC application design, S7-200 PLC communication and network, S7-200 PLC and man-machine interface and appendix, etc.
	微视频学工控系列 西门子PLC零基础入门到精通 Micro-video industrial control series Siemens c M zero foundation entry to proficiency	蔡杏山	中国电力出版社	2020	88,00	ISBN: 9787519844899	[购买参考链接（微视频学工控系列 西门子PLC零基础入门到精通）](#)	本书介绍了西门子S7-200、S7-200 SMART和S7-300/400 PLC技术，主要内容包括PLC基础、S7-200PLC编程与仿真软件的使用、基本指令及应用、顺序控制指令及应用、功能指令及应用、PLC通信、数字量与模拟量扩展模块的使用、西门子S7-200 SMART PLC编程软件的使用、S7-200 SMART PLC的以太网通信、西门子S7-300 PLC介绍、S7-300/400编程仿真软件（STEP7）的使用、S7-300/400PLC应用系统的开发举例。 This book introduces Siemens S7-200, S7-200 SMART and S7-300/400 PLC technology, the main contents include PLC foundation, S7-200 PLC programming and simulation software use, basic instructions and applications, sequence control instructions and applications, functional instructions and applications, PLC communication, digital and analog expansion module use, Siemens S7-200 SMART PLC introduction, S7-200 SMART PLC programming software use, S7-200 SMART PLC Ethernet communication, Siemens S7-300 PLC introduction, S7-300/400 programming simulation software (STEP7) use, S7-300/400PLC application system development examples.
	西门子PLC编程100例精解 Precise solution of 100 cases of Siemens PLC programming	张豪, 袁帆	中国电力出版社	2020	68,00	ISBN: 9787519845797	[购买参考链接（西门子PLC编程100例精解）](#)	本书以西门子S7-200 SMART 系列PLC 工程实践案例为主体，通过100 个由简单到复杂的PLC编程案例，讲解了各软元件、基本指令、功能指令的功能及用法。书中针对工业控制现场的实际情况，以案例的形式分别介绍了西门子S7-200 SMART 系列PLC逻辑控制、模拟量控制、步进伺服的控制，并以三级架构的形式讲述了工业控制通信。 This book takes Siemens S7-200 SMART series PLC engineering practice cases as the main body, through 100 simple to complex PLC programming cases, explains the functions and usage of various software components, basic instructions and functional instructions. According to the actual situation of industrial control site, the book introduces Siemens S7-200 SMART series PLC logic control, analog control and stepping servo control in the form of cases, and tells the industrial control communication in the form of three-level architecture.
	电气自动化技能型人才实训系列 西门子S7-1200 PLC应用技能实训 Training Series of Electrical Automation Skilled Talents Siemens S7-1200 PLC Application Skills Training	高文娟, 张天洪, 陈立香, 杨波, 肖明耀	中国电力出版社	2019	49,00	ISBN: 9787519831820	[购买参考链接（电气自动化技能型人才实训系列 西门子S7-1200 PLC应用技能实训）](#)	本书采用以工作任务驱动为导向的项目训练模式，通过任务驱动技能训练，帮助读者快速掌握西门子S7-1200系列PLC的项目创建与硬件配置等基础知识，以及程序设计方法与技巧。部分项目后面设有技能提高训练内容，可全面提高读者西门子S7-1200系列PLC的综合应用能力。全书包括12个项目，分别为认识西门子S7-1200PLC、学会使用TIA博途PLC编程软件、用PLC控制三相交流异步电动机、定时控制及其应用、计数控制及其应用、步进顺序控制、交通信号灯控制、模块化控制、电梯控制、机械手控制、步进电机控制和模拟量控制，每个项目设有1~2个训练任务。 This book adopts task-driven project training mode. Through task-driven skill training, it helps readers quickly master the basic knowledge of project creation and hardware configuration of Siemens S7-1200 series PLC, as well as programming methods and skills. Some of the projects are equipped with skills improvement training content, which can comprehensively improve readers' comprehensive application ability of Siemens S7-1200 series PLC. The book includes 12 items, namely, understanding Siemens S7-1200PLC, learning to use TIA Bo Tu PLC programming software, using PLC to control three-phase AC asynchronous motor, timing control and its application, counting control and its application, stepping sequence control, traffic signal control, modular control, elevator control, manipulator control, stepping motor control and analog control. Each item has 1 ~ 2 training tasks.
	电气自动化通用设备应用系列 西门子变频器入门与典型应用 Application Series of General Equipment for Electrical Automation Introduction and Typical Application of Siemens Inverter	王建, 杨秀双	中国电力出版社	2023	30,00	ISBN: 9787512321083	[购买参考链接（电气自动化通用设备应用系列西门子变频器入门与典型应用 王建//杨秀双 管理 市场/营销 销售书籍中国电力出版社）](#)	本书系统地介绍了变频器的基本使用方法及实训操作，并介绍了十余种典型应用电路等。全书共分3章：第1章介绍西门子MM420变频器的基础知识，主要讲述了变频器的选用、安装维护与基本操作等；第2章介绍变频器基本控制线路，主要讲述了变频器的点动、正反转、PID及多段速控制；第3章介绍变频器与PLC在典型控制系统中的应用，主要讲述了变频器与PLC的综合应用，包括恒压供水系统、锅炉鼓风机、离心机、刨床、卷扬机控制系统，以及注塑机PLC、变频器改造等。 This book systematically introduces the basic use of frequency converter and training operation, and introduces more than ten typical application lines, etc. The book is divided into three chapters: Chapter 1 introduces the basic knowledge of Siemens MM420 frequency converter, mainly about the selection, installation and maintenance of frequency converter and basic operation; Chapter 2 introduces the basic control circuit of the frequency converter, mainly about the inching, positive and negative reversal, PID and multi-stage speed control of the frequency converter; Chapter 3 introduces the application of frequency converter and PLC in typical control system, mainly describes the comprehensive application of frequency converter and PLC, including constant pressure permanent supply system, boiler blower, centrifuge, planer, hoist control system, and injection molding machine PLC, frequency converter transformation, etc.
	西门子PLC与变频器、触摸屏综合应用教程（第三版） Siemens PLC, Frequency Converter and Touch Screen Comprehensive Application Tutorial (Third Edition)	阳胜峰, 吴志敏	中国电力出版社	2021	78,00	ISBN: 9787519855208	[购买参考链接（西门子PLC与变频器、触摸屏综合应用教程（第三版））](#)	本书系统介绍了西门子S7-200 PLC、MM440 变频器、G110 变频器、西门子人机界面、自由口通信及综合应用，通过大量的实例，深入浅出地介绍了S7-200 PLC的原理与编程，变频器的各种功能调试、组态软件WinCC flexible 组态技术，以及它们的综合应用和S7-200 PLC的自由口通信技术。 This book systematically introduces Siemens S7-200 PLC, MM440 frequency converter, G110 frequency converter, Siemens man-machine interface, free port communication and comprehensive application. Through a large number of examples, it briefly introduces the principle and programming of S7-200 PLC, various function debugging of frequency converter, configuration software WinCC flexible configuration technology, and their comprehensive application and free port communication technology of S7-200 PLC.
	普通高等教育实验实训规划教材（电气信息类）PLC实验实训教程（西门子S7-300系列） General Higher Education Experiment Training Planning Textbook (Electrical Information) PLC Experiment Training Course (Siemens S7-300 Series)	孙竹梅	中国电力出版社	2018	36,00	ISBN: 9787508390307	[购买参考链接（普通高等教育实验实训规划教材（电气信息类）PLC实验实训教程（西门子S7-300系列））](#)	全书共八章，主要内容包括初步认识PLC及编程系统、STEP7的使用、编程语言与指令系统、组织块及系统功能块的使用、结构化编程、常用低压电器简介以及基本指令实训项目和综合实训项目。本书的内容上紧扣实践教学的要求，以强化工程训练及培养创新能力为目的，既有基础实验，也有设计型、综合型实验。 The whole book consists of eight chapters, the main contents include preliminary understanding of PLC and programming system, use of STEP7, use of programming language and instruction system, use of organization block and system function block, structured programming, introduction of common low-voltage electrical appliances, basic instruction training items and comprehensive training items. The content of this book closely follows the requirements of practical teaching, aiming at strengthening engineering training and cultivating innovative ability. There are not only basic experiments, but also design and comprehensive experiments.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	你问我答学工控 学会西门子S7-200 PLC应用 You asked me to answer the application of Siemens S7-200 PLC of Industrial Control Society	曹振宇	中国电力出版社	2019	69,00	ISBN: 9787512365155	购买参考链接（你问我答学工控 学会西门子S7-200 PLC应用）	本书从实际应用和教学需要出发，采用问答形式，以西门子S7-200 PLC为例，全面介绍了PLC基础知识、西门子S7-200系列PLC硬件技术、可编程逻辑器件PLC编程软件的应用、可编程逻辑器件PLC的常用指令、S7-200系列PLC顺序控制指令与应用实例、S7-200系列PLC功能指令及应用、PLC应用实例、PLC在实际应用中常见问题等内容。 7-200 series PLC hardware technology, programmable logic device PLC programming software application, programmable logic device PLC common instructions, S7-200 series PLC sequence control instructions and application examples, S7-200 series PLC function instructions and application, PLC application examples, PLC in practical application of common problems. Examples of this book cover the use of common logic instructions and functional instructions and skills, and give examples of the program.
	西门子S7-200/300/400系列PLC快速入门手册 Siemens S7-200/300/400 Series PLC Quick Start Manual	阳胜峰, 谭凌峰	中国电力出版社	2015	158,00	ISBN: 9787512371477	购买参考链接（西门子S7-200/300/400系列PLC快速入门手册）	本书主要内容包括S7家族、S7-200 PLC功能、S7-300/400PLC功能、S7-200通信、S7-200扩展模块、可编程控制器的硬件组成、Micro/Win软件的使用、PLC工作原理及软元件、PLC的I/O接线、基本指令及其应用、顺序控制指令及其应用、常用功能指令及其应用。在变频器部分，重点介绍了变频调速基本知识、G110接线电路、BOP的按钮及其功能、参数的设置方法、G110变频器运行控制信号的设定、G110变频器的调试、MM440变频器的电路结构、调试及其基本控制电路。在触摸屏部分，重点介绍了西门子HMI、WinCC flexible组态软件的使用，设计了两个典型项目，即WinCC flexible循环灯控制项目和多种液体混合控制模拟项目，以项目教学的方法，介绍各种基本对象的组态、脚本组态、趋势曲线、报警、配方、用户管理等组态技术，并实现HMI与PLC的真正链接运行。 The main contents of this book include S7 family, S7-200 PLC function, S7-300/400PLC function, S7-200 communication, S7-200 expansion module, hardware composition of programmable controller, use of Micro/Win software, PLC working principle and software components, PLC I/O wiring, basic instructions and their applications, sequence control instructions and their applications, common function instructions and their applications. In the part of frequency converter, the basic knowledge of frequency conversion and speed regulation, G110 connection circuit, BOP button and its function, parameter setting method, G110 frequency converter operation control signal setting, G110 frequency converter debugging, MM440 frequency converter circuit structure, debugging and basic control circuit are introduced emphatically. In the touchscreen part, the use of Siemens HMI and WinCC flexible configuration software is introduced emphatically. Two typical projects are designed, namely WinCC flexible Circulating Lamp Control Project and Multi-liquid Mixing Control Simulation Project. With the method of project teaching, the configuration technologies of various basic objects, script configuration, trend curve, alarm, formula, user management, etc. are introduced, and the real connection between HMI and PLC is realized.
	西门子变频器技术及应用 Technology and Application of Siemens Inverter	李志平, 刘维林	中国电力出版社	2015	45,00	ISBN: 9787512362345	购买参考链接（西门子变频器技术及应用）	本书主要讲解了西门子通用变频器MM440的原理、选择、安装和参数设定。其中心内容是通用变频器的工作原理与结构，西门子M440变频器的操作、通信、工程应用与故障维修。 This book mainly explains the principle, selection, installation and parameter setting of Siemens universal frequency converter MM440. Its central content is the working principle and structure of general frequency converter, the operation, communication, engineering application and fault maintenance of Siemens M440 frequency converter
	西门子变频器与PLC综合应用入门 Introduction to the comprehensive application of Siemens frequency converter and PLC	万英	中国电力出版社	2017	35,00	ISBN: 9787519800253	购买参考链接（西门子变频器与PLC综合应用入门）	本书以西门子公司的MM440变频器与S7-200PLC为例，以现场应用为导向，循序渐进地介绍了 变频器与PLC的使用方法和实际应用。 This book takes Siemens MM440 Inverter and S7-200PLC as an example, taking field application as a guide, introduces the use method and practical application of Inverter and PLC step by step.
	西门子RWG控制平台进阶及实践 Advanced and Practice of Siemens RWG Control Platform	韩嘉鑫	中国电力出版社	2022	48,00	ISBN: 9787519859947	购买参考链接（西门子RWG控制平台进阶及实践）	本教材打破了传统的以知识传授为主线的知识架构，主要以案例、实训任务为载体，对相关知识点、技能点进行剖析、阐述。本教材共7章，主要内容包括暖通空调控制基础知识、多功能通用控制RWG 简介、RWG 控制器硬件及、RWG 编程工具入门、逻辑功能块、应用案例及实现、RWG 控制器与物联网的结合。 This textbook breaks the traditional knowledge structure with knowledge imparting as the main line, and mainly analyzes and expounds relevant knowledge points and skill points with cases and practical training tasks as carriers. This textbook consists of 7 chapters, the main contents include the basic knowledge of HVAC control, the introduction of multifunctional general control RWG, the hardware design of RWG controller, the introduction of RWG programming tools, logic function blocks, application cases and implementation, and the combination of RWG controller and Internet of Things.
	电气自动化技能型人才实训系列 西门子S7-200系列PLC应用技能实训 Training Series of Electrical Automation Skilled Talents Siemens S7-200 Series PLC Application Skills Training	肖明耀	中国电力出版社	2010	32,00	ISBN: 9787512303102	购买参考链接（西门子S7-200系列PLC应用技能实训/电气自动化技能型人才实训系列 中国电力出版社）	本书采用以工作任务驱动为导向的项目训练模式，通过任务驱动技能训练，帮助读者快速掌握西门子S7—200系列PLC的基础知识，提高西门子S7200系列PLC的综合应用能力。全书包括15个项目，分别是认识西门子S7—200系列可编程控制器、学会使用STEP7Micr0／WIN编程软件、用PLC控制三相交流异步电动机、定时器控制及其应用、计数器控制及其应用、步进顺序控制、交通灯控制、彩灯控制、电梯控制、机床控制、机械手控制、步进电动机控制、自动生产线控制、远程通信控制、模拟量控制，每个项目设有1个或2个训练任务。 This book adopts task-driven project training mode. Through task-driven skill training, it helps readers quickly master the basic knowledge of Siemens S7—200 series PLC and improve the comprehensive application ability of Siemens S7200 series PLC. The book includes 15 items, which are knowing Siemens S7-200 series programmable controller, learning to use STEP7Micr0/WIN programming software, using PLC to control three-phase AC asynchronous motor, timer control and its application, counter control and its application, stepping sequence control, traffic light control, colored light control, elevator control, machine tool control, manipulator control, stepping motor control, automatic production line control, remote communication control and analog control. Each item has one or two training tasks.
	西门子S7-300/400 PLC从入门到精通 Siemens S7-300/400 PLC from introduction to mastery	陈忠平, 邬书跃, 梁华, 侯玉宝	中国电力出版社	2018	128,00	ISBN: 9787519824556	购买参考链接（西门子S7-300/400 PLC从入门到精通）	本书从实际工程应用出发，以S7 300/400PLC为对象，详解模块式PLC的基础与实际应用等方面的内容。本书共分10章,主要介绍了PLC的基本概况、S7 300/400PLC的硬件系统、S7 300/400PLC编程软件的使用方法、S7 300/400PLC的基本指令、S7 300/400PLC的功能指令、S7 300/400PLC的程序结构、梯形图的顺序控制设计方法、S7 300/400PLC模拟量功能与PID闭环控制、PLC的通信与网络、PLC的安装与维护等内容。 This book from the actual engineering application, S7 300/400 PLC as the object, explain the modular PLC foundation and practical application and other aspects of the content. This book is divided into 10 chapters, which mainly introduces the basic situation of PLC, the hardware system of S7300/400 PLC, the use of S7300/400 PLC programming software, the basic instructions of S7300/400 PLC, the functional instructions of S7300/400 PLC, the program structure of S7300/400 PLC, the sequence control design method of ladder diagram, the analog function of S7300/400 PLC and PID closed-loop control, the communication and network of PLC, and the installation and maintenance of PLC.
	电气控制与PLC应用项目教程 Electrical Control and PLC Application Project Course	王永顺	机械工业出版社	2011	29,90	ISBN: 9787111326113	购买参考链接（电气控制与PLC应用项目教程）	本书适用于理论实践一体化教学模式。在内容编排上，以西门子公司的S7-300系列PLC为例，按照"适用、够用"的原则编排教材内容，充分体现了教材的科学性、实用性和可操作性。本书集理论知识、工程应用和创新于一体，以12个实际项目贯穿始终，内容涵盖了电气控制的基本知识、PLC的组成、工作原理、编程工具、指令系统、变频器及其操作、PLC与变频器的综合应用以及基于PLC的控制系统的设计思路，组态王与PLC的联合应用，并给出了大量的应用实例、习题及思考题。 This book is suitable for the integrated teaching mode of theory and practice. In the content arrangement, taking S7-300 series PLC of Siemens Company as an example, according to the principle of "applicability and sufficiency", the content of the teaching material is arranged, which fully embodies the scientificity, practicability and operability of the teaching material. This book integrates theoretical knowledge, engineering application and innovation, with 12 practical projects throughout, covering the basic knowledge of electrical control, PLC composition, working principle, programming tools, instruction system, frequency converter and its operation, the comprehensive application of PLC and frequency converter and the design idea of control system based on PLC, the joint application of Kingview and PLC, and gives a large number of application examples, exercises and thinking questions.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	电气控制与S7-300 PLC工程应用技术 Electrical Control and S7-300 PLC Engineering Application Technology	姜建芳	机械工业出版社	2014	59,80	ISBN: 9787111451990	购买参考链接（电气控制与S7-300 PLC工程应用技术）	本书内容包括电气控制与PLC应用两部分。电气控制部分包括常用低压电器的工作原理及选型、电气控制电路的分析与设计等；PLC应用部分包括PLC的组成及原理、S7-300硬件结构、SIMATIC管理器、程序结构、指令系统、编程语言及程序设计方法、故障诊断与排除、闭环控制的实现、PLC控制工程实例等，使读者系统地掌握PLC知识，联系工程实际恰当地对PLC控制系统进行设计和维护。 This book includes two parts: electrical control and PLC application. The electrical control part includes the working principle and selection of common low-voltage electrical appliances, the analysis and design of electrical control circuits, etc. PLC application includes the composition and principle of PLC, S7-300 hardware structure, SIMATIC manager, program structure, instruction system, programming language and program design method, fault diagnosis and elimination, realization of closed-loop control, PLC control engineering examples, etc., so that readers can master PLC knowledge systematically and design and maintain PLC control system properly according to engineering practice.
	组态软件WinCC及其应用 第2版 Configuration software WinCC and its application 2nd edition	刘华波	机械工业出版社	2018	55,00	ISBN: 9787111609537	购买参考链接（组态软件WinCC及其应用 第2版）	本书由浅入深地介绍西门子公司的组态软件WinCC，注重实例，强调应用。全书共分为14章，分别介绍了组态软件的基础知识、WinCC的变量、画面的组态、用户管理、脚本使用、报警记录、变量记录、报表系统、开放性接口、系统组态、智能工具、WinCC的选件和诊断等。 This book introduces Siemens configuration software WinCC from simple to deep, focusing on examples and emphasizing applications. The book is divided into 14 chapters, which respectively introduce the basic knowledge of configuration software, WinCC variables, screen configuration, user management, script use, alarm record, variable record, report system, open interface, system configuration, intelligent tools, WinCC options and diagnosis, etc.
	S7-200 SMART PLC编程及应用 第3版 S7-200 SMART PLC Programming and Application 3rd Edition	廖常初	机械工业出版社	2019	49,80	ISBN: 9787111618249	购买参考链接（S7-200 SMART PLC编程及应用 第3版（国规教材））	本书全面介绍了S7-200SMART的硬件组成、工作原理、指令系统和编程软件的使用方法；介绍了数字量控制系统梯形图的一整套先进完整的设计方法，这些方法易学易用，可以节约大量的设计时间；介绍了PLC之间、PLC与变频器和组态软件之间的通信的编程和调试的方法；PID控制系统和PID参数的整定方法、提高系统可靠性的硬件措施、触摸屏的组态和应用，以及常用的编程向导的使用方法。各章配有习题，附录中有35多个实验的指导书。 This book comprehensively introduces the S7-200SMART hardware composition, working principle, instruction system and programming software; This paper introduces a set of advanced and complete design methods of ladder diagram of digital quantity control system, which are easy to learn and use and can save a lot of design time; This paper introduces the programming and debugging methods of communication between PLC, PLC, frequency converter and configuration software. PID control system and tuning method of PID parameters, hardware measures to improve system reliability, configuration and application of touch screen, and use method of common programming wizard. Each chapter is equipped with exercises, and there are more than 35 experimental instructions in the appendix.
	西门子WinCC V7.4 基础与应用 第2版 Siemens WinCC V7.4 Fundamentals and Applications 2nd Edition	李建平, 甄立东	机械工业出版社	2019	79,00	ISBN: 9787111626404	购买参考链接（西门子WinCC V7.4 基础与应用 第2版）	《西门子WinCC V7.4 基础与应用 第2版》首先介绍了初级用户必须掌握的主要功能，包括产品介绍、软件的安装及安装软件所需的条件、项目的建立、组态变量及通信、组态画面、变量记录、报警记录、报表系统、脚本系统、文本库、用户管理和交叉索引，其次介绍了高级用户需要了解的Microsoft SQL Server 2014、系统组态、全集成自动化、开发性、工厂智能选件、应用实例、实际应用中常见问题及解决方法。 Siemens WinCC V7.4 Fundamentals and Applications Version 2 first introduces the main functions that beginners must master, including product introduction, software installation and the necessary conditions for installing software, project establishment, configuration variables and communication, configuration screen, variable records, alarm records, report system, script system, text library, user management and cross-index. Secondly, it introduces Microsoft SQL Server 2014, system configuration, full integration automation, development, factory intelligent option, application examples, common problems in practical application and solutions that advanced users need to know.
	PLC编程及应用 第5版 PLC Programming and Application 5th Edition	廖常初	机械工业出版社	2020	59,00	ISBN: 9787111626756	购买参考链接（PLC编程及应用 第5版）	PLC编程及应用 第5版全面介绍了S7-200的硬件结构、指令系统和编程软件的使用方法；通过大量的实例，介绍了功能指令的使用方法；介绍了设计数字量控制梯形图的顺序控制设计法，这种方法易学易用，可以节约大量的设计时间；介绍了S7-200的通信网络、通信功能和通信程序的设计方法，以及PLC之间、PLC和变频器之间的通信的编程和实现的方法；还介绍了PID控制和PID参数的整定方法、提高系统可靠性的措施、数据记录、触摸屏的组态和应用、组态软件在系统监控和被控对象仿真中的应用。 The fifth edition of PLC programming and application introduces the hardware structure, instruction system and programming software of S7-200; Through a large number of examples, this paper introduces the use of functional instructions. This paper introduces the sequence control design method for designing digital control ladder diagram, which is easy to learn and use and can save a lot of design time; This paper introduces the communication network, communication function and communication program design method of S7-200, as well as the programming and realization method of communication between PLC and PLC and frequency converter. It also introduces PID control and PID parameter tuning methods, measures to improve system reliability, data recording, configuration and application of touch screen, and application of configuration software in system monitoring and controlled object simulation.
	西门子SINAMICS G120/S120变频器技术与应用 Technology and Application of Siemens SINAMICS G120/S120 Inverter	向晓汉, 唐克彬	机械工业出版社	2020	69,00	ISBN: 9787111643104	购买参考链接（西门子SINAMICS G120 S120变频器技术与应用）	《西门子SINAMICS G120/S120变频器技术与应用》从基础和实用出发，主要内容包括变频器基础知识、G120变频器的接线与操作、G120变频器的运行与功能、S120系统与接线、S120系统的运行与功能、G120/S120通信、变频器的常用外围器件与外围电路、G120变频器的参数设置与调试、G120/S120变频器的报警与故障诊断以及工程应用。 "Siemens SINAMICS G120/S120 Inverter Technology and Application" starts from foundation and practicality, and its main contents include basic knowledge of frequency converter, wiring and operation of G120 frequency converter, operation and function of G120 frequency converter, system and wiring of S120, operation and function of S120 system, communication of G120/S120, common peripheral devices and circuits of frequency converter, parameter setting and debugging of G120/S120 frequency converter, alarm and fault diagnosis of G120/S120 frequency converter and engineering application.
	西门子变频器技术入门及实践 Introduction and practice of Siemens frequency converter technology	刘长青	机械工业出版社	2020	68,90	ISBN: 9787111650171	购买参考链接（西门子变频器技术入门及实践）	《西门子变频器技术入门及实践》主要介绍西门子G120及相关变频器的入门实践操作。本书的特点是从应用角度，先铺垫需要的变频器基础知识，然后以西门子G120变频器为例，按照认知的思维习惯，介绍变频器的硬件、安装、接线、基本调试、设置、通信、维护和调试软件等内容，并从简单的硬件安装开始，循序渐进地介绍变频器相关的实践操作。 "Introduction and Practice of Siemens Inverter Technology" mainly introduces the introduction and practice of Siemens G120 and related inverters. The characteristic of this book is from the application point of view, first paving the necessary basic knowledge of frequency converter, and then taking Siemens G120 frequency converter as an example, according to cognitive thinking habits, introducing the hardware, installation, wiring, basic debugging, setting, communication, maintenance and debugging software of frequency converter, etc., and starting from simple hardware installation, gradually introducing the relevant practical operation of frequency converter.
	西门子S7-1200 PLC编程与应用 第2版 Siemens S7-1200 PLC Programming and Application 2nd Edition	刘华波,马艳, 何文雪,吴贺荣	机械工业出版社	2020	69,90	ISBN: 9787111652779	购买参考链接（西门子S7-1200 PLC编程与应用 第2版）	S7-1200 PLC是西门子公司2009年推出的面向离散自动化系统和独立自动化系统的一款控制器，采用模块化设计并具备强大的工艺功能，适用于多种场合，可满足不同的自动化需求。本书由浅入深、全面介绍了S7-1200 PLC的硬件、编程及应用。全书分为9章，分别介绍了PLC基础知识、硬件结构和安装维护、编程基础、指令系统、程序设计、精简系列面板的组态、通信和工艺功能等。 S7-1200 PLC is a controller for discrete automation system and independent automation system introduced by Siemens in 2009. It adopts modular design and has powerful process functions, which is suitable for various occasions and can meet different automation requirements. This book from shallow to deep, a comprehensive introduction to the S7-1200 PLC hardware, programming and application. The book is divided into 9 chapters, which respectively introduce the basic knowledge of PLC, hardware structure, installation and maintenance, programming basis, instruction system, programming, configuration of simplified series panels, communication and process functions, etc.
	S7-1200 PLC编程及应用 第4版 S7-1200 PLC Programming and Application 4th Edition	廖常初	机械工业出版社	2021	69,00	ISBN: 9787111680789	购买参考链接（S7-1200 PLC编程及应用 第4版）	本书通过大量的例程和视频教程，深入浅出地介绍了S7-1200的硬件与硬件组态、编程软件与仿真软件的使用、指令应用、程序结构、各种通信网络和通信服务的组态与编程、故障诊断、精简系列面板的组态与仿真，以及PID闭环控制。还介绍了易学易用的开关量控制系统的顺序控制编程方法和PID参数整定的纯软件仿真方法。 Through a large number of routines and video tutorials, this book introduces the hardware and hardware configuration of S7-1200, the use of programming software and simulation software, instruction application, program structure, configuration and programming of various communication networks and communication services, fault diagnosis, configuration and simulation of simplified series panels, and PID closed-loop control. The sequence control programming method of switching value control system and the pure software simulation method of PID parameter tuning which are easy to learn and use are also introduced.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	西门子S7-200 SMART PLC编程与应用案例精选 Siemens S7-200 SMART PLC Programming and Application Case Selection	叶志明	机械工业出版社	2022	79,00	ISBN: 9787111682417	购买参考链接（西门子S7-200 SMART PLC编程与应用案例精选）	本书以案例式教学为特色，通过37个项目讲解西门子S7-200 SMART PLC的编程及应用。这些项目分为基本指令和功能指令两部分，分别介绍了位逻辑、定时器、计数器、程序控制、表处理、数据处理、中断、高速计数及高速脉冲输出等基本指令和配方，以及数据块、数据日志、PID控制、通信、运动控制等复杂功能指令，每个项目都给出了程序清单及注释，并适当进行点评。 This book is characterized by case-based teaching, explaining the programming and application of Siemens S7-200 SMART PLC through 37 projects. These items are divided into two parts: basic instructions and functional instructions. They respectively introduce basic instructions and formulas such as bit logic, timer, counter, program control, table processing, data processing, interrupt, high-speed counting and high-speed pulse output, as well as complex functional instructions such as data block, data log, PID control, communication and motion control. Each item gives a program list and comments, and makes appropriate comments.
	S7-1200/1500 PLC应用技术 第2版 S7-1200/1500 PLC Application Technology 2nd Edition	廖常初	机械工业出版社	2021	99,00	ISBN: 9787111684398	购买参考链接（S7-1200/1500 PLC应用技术 第2版）	本书全面、深入地介绍了西门子S7-1200/1500 PLC的硬件与硬件组态、编程软件和仿真软件的使用、指令应用、程序结构、S7-Graph和SCL语言、各种通信网络和通信服务的组态与编程、网络控制系统故障诊断的多种方法、精简系列面板的组态与仿真，以及PID闭环控制。还介绍了一套开关量控制系统的顺序控制编程方法和PID参数整定的纯软件仿真方法。 This book comprehensively and deeply introduces the hardware and hardware configuration of Siemens S7-1200/1500 PLC, the use of programming software and simulation software, instruction application, program structure, S7-Graph and SCL language, configuration and programming of various communication networks and communication services, various methods of fault diagnosis of network control systems, configuration and simulation of simplified series panels, and PID closed-loop control. A sequence control programming method of switching value control system and a pure software simulation method of PID parameter tuning are also introduced.
	电气控制与S7-1500 PLC应用技术 S7-1200/1500 PLC Application Technology 2nd Edition	李鸿儒, 梁岩	机械工业出版社	2021	69,80	ISBN: 9787111685364	购买参考链接（电气控制与S7-1500 PLC应用技术》(李鸿儒 梁岩)【简介_书评	本书深入浅出地介绍了电器控制及S7-1500 PLC的相关知识及应用方法，并将与工程相关的标准化、安全、经济、维护等问题贯穿始终。 This book introduces electrical control and S7-1500 PLC related knowledge and application methods in a simple way, and will be related to engineering standardization, safety, economy, maintenance and other issues throughout.
	S7-1200 PLC编程及应用技术 Programming and Application Technology of S7-1200 PLC	奚茂龙	机械工业出版社	2022	69,80	ISBN: 9787111693413	购买参考链接（S7-1200 PLC编程及应用技术）	本书从基础和实用出发，全面系统介绍西门子S7-1200 PLC编程及应用。具体内容为西门子S7-1200 PLC的硬件与接线、TIA Portal软件的使用、常用指令及其编程、S7-1200 PLC的工艺功能、S7-1200 PLC在运动控制中的应用、S7-1200 PLC的通信和工程应用等。 This book from the basis and practical, a comprehensive and systematic introduction to Siemens S7-1200 PLC programming and application. The specific contents include the hardware and wiring of Siemens S7-1200 PLC, the use of TIA Portal software, common instructions and programming, the process function of S7-1200 PLC, the application of S7-1200 PLC in motion control, the communication and engineering application of S7-1200 PLC, etc.
	电气控制与S7-1200 PLC应用技术 Electric Control and Application Technology of S7-1200 PLC	梁岩, 梁雪, 王泓潇	机械工业出版社	2022	59,80	ISBN: 9787111714576	购买参考链接（电气控制与S7-1200 PLC应用技术）	本书系统地介绍了各类常用低压电器、常见电气控制电路及其设计、S7-1200 PLC应用技术及博途软件的功能等，着重介绍了S7-1200 PLC的硬件系统、软件编程、通信、故障诊断及PLC控制系统设计等内容。 This book systematically introduces all kinds of commonly used low-voltage electrical appliances, common electrical control circuits and their design, S7-I200 PLC application technology and the functions of Bo Tu software, etc., focusing on the hardware system, software programming, communication, fault diagnosis and PLC control system design of S7-1200 PLC.
	S7-200 SMART PLC编程及应用 第4版 S7-200 SMART PLC Programming and Application 4th Edition	廖常初	机械工业出版社	2023	59,80	ISBN: 9787111716518	购买参考链接（S7-200 SMART PLC编程及应用 第4版）	S7-200 SMART是曾在国内广泛使用的S7-200的更新换代产品，本书根据S7-200 SMART新版的固件和编程软件进行修订，全面介绍了S7-200 SMART的硬件组成、工作原理、指令系统和编程软件的使用方法；介绍了数字量控制系统梯形图的顺序控制设计方法，这种设计方法易学易用，可以节约大量的设计时间。 S7-200 SMART is an updated product of S7-200 which was widely used in China. This book is revised according to the firmware and programming software of the new version of S7-200 SMART, and comprehensively introduces the hardware composition, working principle, instruction system and programming software of S7-200 SMART. This paper introduces the sequential control design method of ladder diagram of digital quantity control system. This design method is easy to learn and use, and can save a lot of design time.
	电气控制与S7-1200 PLC应用技术教程 Electrical control and S7-1200 PLC application technology course	郑海春	机械工业出版社	2022	69,00	ISBN: 9787111715184	购买参考链接（电气控制与S7-1200 PLC应用技术教程）	本书由两部分组成。第1部分为第1~2章，介绍电气控制中常用的低压电器、基本电气控制电路。第2部分为第3~12章，介绍可编程控制器的硬件结构、开发环境、编程基础、指令系统、用户程序结构、HMI组态、开关量控制系统梯形图设计方法、SCL编程基础和PLC的通信等内容。 This book consists of two parts. Part 1 is Chapter 1 ~ 2, which introduces low-voltage electrical appliances and basic electrical control circuits commonly used in electrical control. The second part is Chapter 3 ~ 12, which introduces the hardware structure, development environment, programming basis, instruction system, user program structure, HMI configuration, ladder diagram design method of switching value control system, SCL programming basis and PLC communication and so on
	S7-200系列PLC应用教程（第2版） S7-200 Series PLC Application Course (2nd Edition)	赵全利	机械工业出版社	2020	69,80	ISBN: 9787111646976	购买参考链接（S7-200系列PLC应用教程 第2版）	本书通过大量由简入深的编程应用实例，对PLC控制系统的编程环境、网络通信、计算机组态监控及其系统设计思想、设计步骤、方法和调试进行了详尽的讲述。以工程为导向，以实践为核心，内容循序渐进、由浅入深，便于推行基于项目设计案例的教学方法和学习方法。 Through a large number of simple to deep programming application examples, this book describes the programming environment, network communication, computer configuration monitoring and its system design ideas, design steps, methods and debugging of PLC control system in detail. Taking engineering as the guide and practice as the core, the content is gradual and from shallow to deep, which is convenient to implement the teaching method and learning method based on project design cases.
	S7-300/400 PLC基础及工业网络控制技术 S7-300/400 PLC Foundation and Industrial Network Control Technology	陶权	机械工业出版社	2015	39,00	ISBN: 9787111487098	购买参考链接（S7-300/400 PLC基础及工业网络控制技术（全国高等职业	本教材以S7-300/400基本应用为基础，通过大量工程案例深入讲解了S7-300/400的工业网络控制技术。全书共由六个项目构成，每个项目又分成若干任务，有些任务又细分成子任务；项目一讲解了西门子S7-300/400PLC硬件认识及安装；项目二介绍了STEP7编程软件和PLCSIM仿真软件的使用；项目三讲解了S7-300/400PLC程序设计及调试；项目四讲解了S7-300/400PLC的MPI通信；项目五讲解了S7-300/400PLC的PROFIBUS-DP通信；项目六介绍了工业以太网通信等。 Based on the basic application of S7-300/400, this textbook explains the industrial network control technology of S7-300/400 in depth through a large number of engineering cases. The book consists of six items, each of which is divided into several tasks, and some tasks are subdivided into sub-tasks; Project 1 explains the understanding and installation of Siemens S7-300/400PLC hardware; Project 2 introduces the use of STEP7 programming software and PLCSIM simulation software. Project 3 explains the program design and debugging of S7-300/400PLC. Project 4 explains MPI communication of S7-300/400PLC. Project 5 explains the PROFIBUS-DP communication of S7-300/400PLC. Project 6 introduces industrial Ethernet communication.
	S7-300 PLC、变频器与触摸屏综合应用教程 Comprehensive Application Course of S7-300 PLC, Frequency Converter and Touch Screen	侍寿永	机械工业出版社	2015	39,90	ISBN: 9787111505525	购买参考链接（S7-300 PLC、变频器与触摸屏综合应用教程）	本书主要以西门子公司的S7300PLC、G120变频器、TP177B触摸屏为对象，以它们的综合应用为重点，通过大量例题和实训，通俗易懂地介绍了S7300PLC的逻辑指令、功能指令、脉冲指令及通信指令等的编程和应用，变频器的常用功能及其软件使用，WinCCflexible组态软件应用，以及它们在工程实例中的综合应用。 This book mainly to Siemens S7300PLC, G120 frequency converter, TP177B touch screen as the object, with their comprehensive application as the focus, through a large number of examples and practical training, easy to understand the S7300PLC logic instruction, function instruction, pulse instruction and communication instruction programming and application, frequency converter common functions and software use, WinCCflexible configuration software application, and their comprehensive application in engineering examples.

Book	Title	Author	Publisher	Edition	Price in CNY	Ordering	LINKS	Summary
	电气控制与PLC技术应用教程 Electrical control and PC technology application course	侍寿永	机械工业出版社	2017	39,90	ISBN: 9787111565338	购买参考链接（电气控制与PLC技术应用教程）	《电气控制与PLC技术应用教程》介绍了机电设备中继电器-接触器控制系统常用电气元器件的结构、外形及工作原理和西门子S7-200 SMART PLC的基础知识及其编程与应用。通过5个工程应用载体和大量案例及实训项目，通俗易懂地介绍了机电设备及生产线电气控制系统中电气原理图的设计、分析和故障诊断方法及S7-200 SMART PLC的位逻辑指令、功能指令、模拟量指令、网络通信指令及顺序控制系统的编程与应用。 The course of electrical control and PLC technology application introduces the structure, shape and working principle of common electrical components in relay-contactor control system of electromechanical equipment, and the basic knowledge, programming and application of Siemens S7-200 SMART PLC. Through five engineering application carriers and a large number of cases and practical training projects, this paper introduces the design, analysis and fault diagnosis methods of electrical schematic diagram in electrical control system of electromechanical equipment and production line, and the programming and application of bit logic instruction, function instruction, analog quantity instruction, network communication instruction and sequence control system of S7-200 SMART PLC.
	可编程序控制器技术及应用项目化教程 Programmable Controller Technology and Application Project Course	陈丽敏	机械工业出版社	2017	39,90	ISBN: 9787111571728	购买参考链接（可编程序控制器技术及应用项目化教程）	《可编程序控制器技术及应用项目化教程》以西门子公司的S7-200PLC为硬件基础，以项目为主线，采用任务驱动法，通过典型应用实例，全面、细致地讲解了可编程序控制器的工作原理，S7-200PLC的硬件结构，STEP7-MICRO/WIN编程软件的使用，S7-200PLC的位操作指令、数据处理指令、转换指令、运算指令、程序控制指令、特殊指令的逻辑功能与应用。 Based on the S7-200PLC of Siemens Company, the project-driven method is adopted in the course of programmable controller technology and application. Through typical application examples, the working principle of programmable controller, the hardware structure of S7-200PLC, the use of STEP7-Micro/WIN programming software, the logic function and application of bit operation instruction, data processing instruction, conversion instruction, operation instruction, program control instruction and special instruction of S7-200PLC are comprehensively and carefully explained.
	S7-200 PLC基础教程 第4版 S7-200 PLC Basic Course 4th Edition	廖常初	机械工业出版社	2019	45,00	ISBN: 9787111618966	购买参考链接（S7-200 PLC基础教程 第4版）	本书全面介绍了 S7-200 的硬件结构、指令系统和编程软件的使用方法；通过大量例程，介绍了功能指令的使用方法；介绍了一整套先进的数字量控制系统梯形图的设计方法；介绍了 S7-200 的通信功能和通信程序的设计方 法，以及 PLC 之间、PLC 与变频器之间通信的编程和实现的方法；还介绍 了 PID 控制和 PID 参数的整定方法、提高 PLC 控制系统硬件可靠性的措施、触摸屏的组态和应用，以及常用的编程向导的使用方法。 This book comprehensively introduces the hardware structure of S7-200, instruction system and the use of programming software; Through a large number of routines, the use of functional instructions is introduced. This paper introduces a set of advanced design methods of ladder diagram of digital quantity control system. This paper introduces the communication function of S7-200 and the design method of communication program, as well as the programming and realization method of communication between PLC and PLC and frequency converter. It also introduces the PID control and the tuning method of PID parameters, the measures to improve the hardware reliability of PLC control system, the configuration and application of touch screen, and the use method of common programming wizard.
	S7-200 SMART PLC应用教程 第2版 S7-200 SMART PLC Application Tutorial 2nd Edition	廖常初	机械工业出版社	2019	45,00	ISBN: 9787111625261	购买参考链接（S7-200 SMART PLC应用教程 第2版）	本书介绍了 PLC 之间、PLC 与变频器之间通信的编程和调试的方 法；PID 控制系统和 PID 参数的整定方法、提高系统可靠性的硬件措施、触摸屏的组态和应用，以及常用的编程向导的使用方法。通过大量的例程，介 绍了功能指令的使用方法。 This book introduces the programming and debugging methods of communication between PLC and frequency converter; PID control system and tuning method of PID parameters, hardware measures to improve system reliability, configuration and application of touch screen, and use method of common programming wizard. Through a large number of routines, the use of functional instructions is introduced.
	西门子S7-300 PLC基础与应用 第3版 Siemens S7-300 PLC Basis and Application 3rd Edition	吴丽	机械工业出版社	2020	49,00	ISBN: 9787111655862	购买参考链接（西门子S7-300 PLC基础与应用 第3版）	本书以工程实际应用和便于教学使用为出发点，以西门子 S7-300系列PLC为蓝本，主要介绍可编程序控制器的工作原理、指令系统、程序结构、编程软件使用、编程规则与技巧、控制系统设计与应用技术等内容。 This book is based on the practical application of engineering and convenient for teaching, and based on Siemens S7-300 series PLC, mainly introduces the working principle, instruction system, program structure, programming software use, programming rules and skills, control system design and application technology of programmable controller, etc.
	S7-1200 PLC应用教程 第2版 S7-1200 PLC Application Course 2nd Edition	廖常初	机械工业出版社	2020	55,00	ISBN: 9787111657538	购买参考链接（S7-1200 PLC应用教程 第2版）	本书通过大量的例程，介绍了S7-1200的硬件结构和硬件组态、指令、程序结构、PID闭环控制、编程软件和仿真软件的使用方法。介绍了一整套易学易用的开关量控制系统的编程方法、多种通信网络和通信服务的组态和编程的方法、网络控制系统的故障诊断方法、精简系列面板的组态与仿真的方法、用仿真软件在计算机上模拟运行和监控PLC用户程序的方法，以及通过仿真来学习PID参数整定的方法。 This book through a large number of routines, introduced the S7-1200 hardware structure and hardware configuration, instructions, program structure, PID closed-loop control, programming software and simulation software. This paper introduces a set of easy-to-learn and easy-to-use programming methods of switching control system, configuration and programming methods of various communication networks and communication services, fault diagnosis methods of network control system, configuration and simulation methods of simplified series panels, simulation running and monitoring of PLC user programs on computer with simulation software, and learning PID parameter tuning methods through simulation
	S7-200 PLC原理及应用 第3版 Principle and Application of S7-200 PLC 3rd Edition	田淑珍	机械工业出版社	2021	65,00	ISBN: 9787111673903	购买参考链接（S7-200 PLC原理及应用 第3版）	全书共分8章，第1章介绍PLC的基本知识与结构；第2章介绍编程软件的使用及实训；第3、第4章介绍PLC的基本指令及应用；第5章介绍PLC的特殊功能指令及指令向导的应用，常用指令后都配有例题、实训，由浅入深，培养兴趣；第6章通过综合实例和实训，介绍PLC应用系统的设计；第7章介绍S7-200 PLC的通信与网络，重点介绍了PPI通信、NETR/NETW指令及向导的应用；第8章介绍了PLC对变频器的控制及实训。 The book is divided into 8 chapters. Chapter 1 introduces the basic knowledge and structure of PLC. Chapter 2 introduces the use and training of programming software. Chapters 3 and 4 introduce the basic instructions and applications of PLC. Chapter 5 introduces the special function instruction of PLC and the application of instruction wizard. After the commonly used instruction, it is equipped with examples and practical training, which can cultivate interest from shallow to deep; Chapter 6 introduces the design of PLC application system through comprehensive examples and practical training. Chapter 7 introduces the communication and network of S7-200 PLC, especially the application of PPI communication, NETR/NETW instruction and wizard; Chapter 8 introduces the control and training of PLC to frequency converter.
	西门子S7-1200 PLC编程及应用教程 第2版 Siemens S7-1200 PLC Programming and Application Course 2nd Edition	侍寿永	机械工业出版社	2021	59,00	ISBN: 9787111684008	购买参考链接（西门子S7-1200 PLC编程及应用教程 第2版）	本书介绍了西门子S7-1200 PLC的基础知识、编程与应用。通过大量案例，通俗易懂地介绍了S7-1200 PLC的基本指令、功能指令、函数块与组织块、模拟量与脉冲量、网络通信、顺序控制系统的编程及应用，并融入了部分1X职业技能等级证书考核内容。 This book introduces the basic knowledge, programming and application of Siemens S7-1200 PLC. Through a large number of cases, this paper introduces the basic instruction, function instruction, function block and organization block, analog quantity and pulse quantity, network communication, programming and application of sequence control system of S7-1200 PLC in an easy-to-understand way, and incorporates some examination contents of 1X vocational skill level certificate.