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Programming the PIC Microcontroller with MBASIC NASA Tech Briefs Electronic Products Magazine Embedded Systems Design using the Rabbit 3000 Microprocessor **Embedded Hardware: Know It All** *Automation with Programmable Logic Controllers* **Digital Protective Relays** *Automotive Power Systems Canadian Electronics Engineering* **PIC Microcontrollers: Know It All** Electric Relays *The Japan Science Review* **Instrument Engineers' Handbook, Volume Two** Make: Electronics Interfirm Networks in the Japanese Electronics Industry Bond Credit Analysis *Protecting Electrical Equipment* Journal of Electronic Engineering **The Electrical Review EDN** *Electrical Design News* **Wireless World** *Design News* **Magnetic Materials Based Biosensors** *EDN, Electrical Design News* **Managing Closed-Loop Supply Chains** Fundamentals of Mechatronics, SI Edition **Electronic Devices on Discrete Components for Industrial and Power Engineering The Discrete Charm of the Machine** Grainger *Printed Circuit Board Design Using AutoCAD* Mobile Robots JEE *Electronic Design* **The Kyoto Model** *MicroMechatronics, Second Edition* Power Supply Devices and Systems of Relay Protection **Asian Sources Electronic Components** *Metal Shapers* **Microwave Journal**

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Bond Credit Analysis Jul 20 2021 Credit analysis is an important factor in judging investment value. Fundamentally sound credit analysis can offer more insight into the value of an investment and lead to greater profits. This study presents a professional framework for understanding and managing a successful corporate or municipal bond analysis, while providing informative case studies from well-known private and government organizations.

Electrical Design News Feb 12 2021

The Kyoto Model Dec 01 2019 This fascinating book focuses on Kyoto high-tech companies that have captured leading market share with globally preeminent technologies and yet have been able to maintain their robust profitability even under Japan's current prolonged recession. The book aims to uncover the secrets of success behind such companies as Kyocera Corp., Omron Corp., Murata Manufacturing Co., Rohm Co. and Horiba Ltd. and their management systems, generally termed 'the Kyoto Model'. The unique features of the model are detailed: the history and founding of these high-tech companies, their management attitude giving priority to corporate philosophies, their organizational management, the emphasis they put on R&D management and production technologies, their personnel management, and finally, their philanthropic activities. The Kyoto Model, with its high technology-oriented management system, is a useful case study and tool for Japan's R&D ventures. Contents: Introduction: Japanese and US Styles of Business ManagementThe Kyoto Model: Kyoto High-Tech Companies' Management SystemsWhy Were the High-Tech Companies Founded in Kyoto? — Naturally or Accidentally?Real Faces of Kyoto High-Tech Companies: History of Growth Since

FoundingCorporate Philosophies Emphasized in ManagementUnique Organizational ManagementR&D and Production Control, Cost Control and Personnel Management SystemsPositive Social Contributions Readership: Executives, managers, academicians and researchers in Asian management. Keywords:Industrial Management;Management Systems;High-Tech Ventures;R&D Oriented Ventures;LeadershipKey Features:Includes unique devices and the content of management systems of Kyoto high-tech companiesDiscusses the potential of the Kyoto Model to be adapted by global companies

EDN Mar 16 2021

Electronic Products Magazine Sep 02 2022

PIC Microcontrollers: Know It All Jan 26 2022 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one-stop reference for engineers involved in markets from communications to embedded systems and everywhere in between. PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject. This material ranges from the basics to more advanced topics. There is also a very strong project basis to this learning. The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation. He/she will also be able to work through real-life problems via the projects contained in the book. The Newnes Know It All Series presentation of theory, hard fact, and project-based direction will be a continual aid in helping the engineer to innovate in the workplace. Section I. An Introduction to PIC Microcontrollers Chapter 1. The PIC Microcontroller Family Chapter 2. Introducing the PIC 16 Series and the 16F84A Chapter 3. Parallel Ports, Power Supply and the Clock Oscillator Section II. Programming PIC Microcontrollers using Assembly Language Chapter 4. Starting to Program—An Introduction to Assembler Chapter 5. Building Assembler

Programs Chapter 6. Further Programming Techniques Chapter 7. Prototype Hardware Chapter 8. More PIC Applications and Devices Chapter 9. The PIC 1250x Series (8-pin PIC microcontrollers) Chapter 10. Intermediate Operations using the PIC 12F675 Chapter 11. Using Inputs Chapter 12. Keypad Scanning Chapter 13. Program Examples Section III. Programming PIC Microcontrollers using PicBasic Chapter 14. PicBasic and PicBasic Pro Programming Chapter 15. Simple PIC Projects Chapter 16. Moving On with the 16F876 Chapter 17. Communication Section IV. Programming PIC Microcontrollers using MBasic Chapter 18. MBasic Compiler and Development Boards Chapter 19. The Basics—Output Chapter 20. The Basics—Digital Input Chapter 21. Introductory Stepper Motors Chapter 22. Digital Temperature Sensors and Real-Time Clocks Chapter 23. Infrared Remote Controls Section V. Programming PIC Microcontrollers using C Chapter 24. Getting Started Chapter 25. Programming Loops Chapter 26. More Loops Chapter 27. NUMB3RS Chapter 28. Interrupts Chapter 29. Taking a Look under the Hood Over 900 pages of practical, hands-on content in one book! Huge market - as of November 2006 Microchip Technology Inc., a leading provider of microcontroller and analog semiconductors, produced its 5 BILLIONth PIC microcontroller Several points of view, giving the reader a complete 360 of this microcontroller

Electronic Design Jan 02 2020

Managing Closed-Loop Supply Chains Sep 09 2020 Closed-Loop Supply Chains (CLSC) offer companies a unique opportunity to improve their profits whilst serving societal responsibility. The management of CLSC differs in a number of ways from managing supply chains in general. The book examines these differences and how these differences may be dealt with in practice, by offering a concrete framework, introducing the different aspects related to CLSC and their mutual relations, in a systematic logical way as well as cases clustered according to the inputs of the CLSC.

The framework and especially the cases from successful companies offer the reader an invaluable help to build and improve CLSC.

The Electrical Review Apr 16 2021

Embedded Systems Design using the Rabbit 3000 Microprocessor Aug 01 2022 The Rabbit 3000 is a popular high-performance microprocessor specifically designed for embedded control, communications, and Ethernet connectivity. This new technical reference book will help designers get the most out of the Rabbit's powerful feature set. The first book on the market to focus exclusively on the Rabbit 3000, it provides detailed coverage of: Rabbit architecture and development environment, interfacing to the external world, networking, Rabbit assembly language, multitasking, debugging, Dynamic C and much more! Authors Kamal Hyder and Bob Perrin are embedded engineers with years of experience and they offer a wealth of design details and "insider" tips and techniques. Extensive embedded design examples are supported by fully tested source code. Whether you're already working with the Rabbit or considering it for a future design, this is one reference you can't be without! Let the experts teach you how to design embedded systems that efficiently hook up to the Internet using networked core modules Provides a number of projects and source code using RabbitCore, which will make it easy for the system designer and programmer to get hands-on experience developing networked devices

Power Supply Devices and Systems of Relay Protection Sep 29 2019 Power Supply Devices and Systems of Relay Protection brings relay protection and electrical power engineers a single, concentrated source of information on auxiliary power supply systems and devices. The book also tackles specific problems and solutions of relay protection power supply systems and devices, which are often not dealt with in the literature. The author, an experienced engineer with more than 100 patents, draws on his own experience to offer practical, tested advice to readers. A

Guide to Relay Protection Power Supply for Engineers and Technicians The first chapter reviews the electronics and primary elements of the system, including transistors, thyristors, optocouplers, logic elements, and relays, and their principles of operation. This background gives staff who service relay protection power supply systems the necessary electronics knowledge to help them work more effectively with the equipment. The next chapters of the book then cover built-in digital protection relay power supplies, battery chargers, accumulator batteries, uninterruptible power supply, and characteristic features of auxiliary DC systems at substations and power plants. The final chapters discuss questions and problems that engineers and technicians may face. These include insulation problems, issues in auxiliary DC power supply such as voltage dips, and electromagnetic disturbances such as blackouts, spikes, and surges. The author also explains how to address them. Suitable for beginners and experienced engineers alike, the book is written for those who work with relay protection systems and with AC and DC auxiliary power systems in power plants and substations. It combines theory and practical recommendations to provide a valuable reference on power supply devices and systems.

Automotive Power Systems Mar 28 2022 Vehicles are intrinsically linked to our lives. This book covers all technical details of the vehicle electrification process, with focus on power electronics. The main challenge in vehicle electrification consists of replacing the engine-based mechanical, pneumatic, or hydraulic ancillary energy sources with electrical energy processed through an electromagnetic device. The book illustrates this evolutionary process with numerous series-production examples for either of body or chassis systems, from old milestones to futuristic luxury vehicles. Electrification of ancillaries and electric propulsion eventually meet into an all-electric vehicle and both processes rely heavily on power electronics. Power electronics deals with

electronic processing of electrical energy. This makes it a support technology for the automotive industry. All the automotive visions for the next decade (2020-2030) are built on top of power electronics and the automotive power electronics industry is expected at 15% compound annual growth rate, the highest among all automotive technologies. Hence, automotive power electronics industry is very appealing for recent and future graduates. The book structure follows the architecture of the electrical power system for a conventional engine-based vehicle, with a last chapter dedicated to an introduction onto electric propulsion. The first part of the book describes automotive technologies for generation and distribution of electrical power, as well as its usage within body systems, chassis systems, or lighting. The second part explores deeper into the specifics of each component of the vehicle electric power system. Since cars have been on the streets for over 100 years, each chapter starts with a list of historical achievements. Recognizing the engineering effort span over more than a century ennobles the R&D efforts of the new millennium. Focus on history of electricity in vehicle applications is another attractive treat of the book. The book fills a gap between books targeting practical education and works sharing advanced academic vision, offering students and academics a quick tour of the basic tools and long-standing infrastructure, and offering practicing engineers an introduction on newly introduced power electronics-based technologies. It is therefore recommended as a must-have book for students and early graduates in automotive power electronics activities.

Embedded Hardware: Know It All Jun 30 2022 The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Circuit design using microcontrollers is both a science and an art. This book covers it all. It details all of the essential theory and fa*Onts to help*

an engineer design a robust embedded system. Processors, memory, and the hot topic of interconnects (I/O) are completely covered. Our authors bring a wealth of experience and ideas; this is a must-own book for any embedded designer. *A 360 degree view from best-selling authors including Jack Ganssle, Tammy Noergard, and Fred Eady *Key facts, techniques, and applications fully detailed *The ultimate hard-working desk reference: all the essential information, techniques, and tricks of the trade in one volume

Fundamentals of Mechatronics, SI Edition Aug 09 2020 The objective of FUNDAMENTALS OF MECHATRONICS is to cover both hardware and software aspects of mechatronics systems in a single text, giving a complete treatment to the subject matter. The text focuses on application considerations and relevant practical issues that arise in the selection and design of mechatronics components and systems. The text uses several programming languages to illustrate the key topics. Different programming platforms are presented to give instructors the choice to select the programming language most suited to their course objectives. A separate laboratory book, with additional exercises is provided to give guided hands-on experience with many of the topics covered in the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Magnetic Materials Based Biosensors Nov 11 2020 This book is a printed edition of the Special Issue "Magnetic Materials Based Biosensors" that was published in Sensors

Electric Relays Dec 25 2021 Electric relays pervade the electronics that dominate our world. They exist in many forms, fulfill many roles, and each have their own behavioral nuances and peculiarities. To date, there exists no comprehensive reference surveying the broad spectrum of electric relays, save one-Electric Relays: Principles and Applications. This ambitious work is not only unique in its scope, but also in its practical *Online Library*

approach that focuses on the operational and functional aspects rather than on theory and mathematics. Accomplished engineer Dr. Vladimir Gurevich builds the presentation from first principles, unfolding the concepts and constructions via discussion of their historical development from the earliest ideas to modern technologies. He uses a show-not-tell approach that employs nearly 1300 illustrations and reveals valuable insight based on his extensive experience in the field. The book begins with the basic principles of relay construction and the major functional parts, such as contact and magnetic systems. Then, it devotes individual chapters to the various types of relays. The author describes the principles of function and construction for each type as well as features of several relays belonging to a type that operate on different principles. Remarkably thorough and uniquely practical, Electric Relays: Principles and Applications serves as the perfect introduction to the plethora of electric relays and offers a quick-reference guide for the experienced engineer.

Mobile Robots Mar 04 2020 Revised and updated, the second edition includes several new chapters with projects and applications. The authors keep pace with the ever-growing and rapidly expanding field of robotics. The new edition reflects technological developments and includes programs and activities for robot enthusiasts. Using photographs, illustrations, and informative t

Printed Circuit Board Design Using AutoCAD Apr 04 2020 Designing PCBs is made easier with the help of today's sophisticated CAD tools, but many companies' requirements do not justify the acquisition cost and learning curve associated with specialized PCB design software. Printed Circuit Board Design Using AutoCAD helps design engineers and students get the most out of their AutoCAD workstation, showing tips and techniques to improve your design process. The book is organized as a series of exercises that show the reader how to draft electronic schematics

and to design single-sided, double-sided, and surface-mount PCBs.Coverage includes drafting schematics, designing PCB artwork, and preparation of detailed fabrication and assembly drawings for PCBs designed on other EDA systems. Appendices on the Gerber and Excellon formats are vital information for anyone involved in professional PCB design. An introductory chapter gives an overview of PCB manufacturing technology and design techniquesIn addition to the tips and techniques, the author has provided a copy of AutoPADS, a proprietary toolkit for PCB designers using AutoCAD. The disk includes the AutoPADS conversion utilities, sample files for the book exercises, and AutoCAD libraries for schematic drafting and PCB design. The AutoPADS utilities allow bidirectional transfer of Gerber format photophlotter data and Excellon format numerical control (NC) drill data from AutoCAD. The AutoPADS utilities also allow input of Hewlett-Packard Graphics Language (HPGL) data from other computer-aided design systems into AutoCAD. ABOUT THE AUTHORChris Schroeder is the Chief Engineer, Electronics, for Crane Technologies Group, Inc., Daytona Beach, Florida, a leading automotive aftermarket and original equipment supplier. He has 19 years of engineering, marketing, and management experience in the electronics industry and has a broad, yet in-depth technical knowledge of both design and manufacturing. His specialized areas of design expertise include: embedded controls using RISC microcontroller technology, assembly language programming, magnetic design for switching power supplies and ignition coils, and printed circuit board design, including the use of surface mount technology.

Automation with Programmable Logic Controllers May 30 2022 Facilitates a thorough understanding of the fundamental principles and elements of automated machine control systems. Describes mechatronic concepts, but highlights PLC machine control and interfacing with the machine's actuators and peripheral equipment. Explains methodical design of PLC control

circuits and programming, and presents solved, typical industrial case problems, shows how a modern PLC control system is designed, structured, compiled and commissioned. Distributed by ISBS. Annotation copyrighted by Book News, Inc., Portland, OR

Grainger May 06 2020

JEE Feb 01 2020

MicroMechatronics, Second Edition Oct 30 2019 After Uchino's introduction of a new terminology, 'Micromechatronics' in 1979 for describing the application area of 'piezoelectric actuators', the rapid advances in semiconductor chip technology have led to a new terminology MEMS (micro-electro-mechanical-system) or even NEMS (nano-electro-mechanicalsystem) to describe mainly thin film sensor/actuator devices, a narrower area of micromechatronics coverage. New technologies, product developments and commercialization are providing the necessity of this major revision. In particular, the progresses in high power transducers, loss mechanisms in smart materials, energy harvesting and computer simulations are significant. New technologies, product developments and commercialization are providing the updating requirement for the book contents, in parallel to the deletion of old contents. Various educational/instructional example problems have been accumulated, which were integrated in the new edition in order to facilitate the self-learning for the students, and the quiz/problem creation for the instructors. Heavily revised topics from the previous edition include: high power transducers, loss mechanisms in smart materials, energy harvesting and computer simulations New technologies, product developments and commercialization helped shape the updated contents of this book where all chapters have been updated and revised. This textbook is intended for graduate students and industrial engineers studying or working in the fields of electronic materials, control system engineering, optical communications, precision machinery, and robotics. The text is designed primarily for a

graduate course with the equivalent of thirty 75-minute lectures; however, it is also suitable for self-study by individuals wishing to extend their knowledge in the field.

Design News Dec 13 2020

Journal of Electronic Engineering May 18 2021

Programming the PIC Microcontroller with MBASIC Nov 04 2022 One of the most thorough introductions available to the world's most popular microcontroller!

Metal Shapers Jul 28 2019 Metal Shapers are a unique tool used by machinists. By todays standards they are obsolete yet there are many amateur machinists and some professionals who still use these wonderful machines. Over a period of 16 years there have been over 140 articles published in the shaper column of the NEMES Gazette (The newsletter of the New England Model Engineering Society). This book contains all those columns republished and in some cases updated and corrected.

Electronic Devices on Discrete Components for Industrial and Power Engineering Jul 08 2020 Is it possible to design and make automatic devices for industrial and power engineering without microcircuits and microprocessors and without complex power supplies? Electronic Devices on Discrete Components for Industrial and Power Engineering answers the question above with a resounding "Yes!" by describing ten original automatic devices based exclusively on modern discrete components. The book reveals that devices based on high-voltage transistors and thyristors as well as miniature vacuum and high power gas-filled reed switches are actually much simpler to implement and more reliable than traditional devices. By identifying elementary functional modules and the basic working principles of semi-conductor devices, the text allows for the construction of complete automatic devices. It also contains an extensive reference section that includes information on modern high-voltage bipolar, FET and IGBT transistors, thyristors and triacs, as well as reed switches.

The Discrete Charm of the Machine Jun 06 2020 The genesis of the digital idea and why it transformed civilization A few short decades ago, we were informed by the smooth signals of analog television and radio; we communicated using our analog telephones; and we even computed with analog computers. Today our world is digital, built with zeros and ones. Why did this revolution occur? The Discrete Charm of the Machine explains, in an engaging and accessible manner, the varied physical and logical reasons behind this radical transformation. The spark of individual genius shines through this story of innovation: the stored program of Jacquard's loom; Charles Babbage's logical branching; Alan Turing's brilliant abstraction of the discrete machine; Harry Nyquist's foundation for digital signal processing; Claude Shannon's breakthrough insights into the meaning of information and bandwidth; and Richard Feynman's prescient proposals for nanotechnology and quantum computing. Ken Steiglitz follows the progression of these ideas in the building of our digital world, from the internet and artificial intelligence to the edge of the unknown. Are questions like the famous traveling salesman problem truly beyond the reach of ordinary digital computers? Can quantum computers transcend these barriers? Does a mysterious magical power reside in the analog mechanisms of the brain? Steiglitz concludes by confronting the moral and aesthetic questions raised by the development of artificial intelligence and autonomous robots. The Discrete Charm of the Machine examines why our information technology, the lifeblood of our civilization, became digital, and challenges us to think about where its future trajectory may lead.
NASA Tech Briefs Oct 03 2022
Microwave Journal Jun 26 2019
EDN, Electrical Design News Oct 11 2020
Instrument Engineers' Handbook, Volume Two Oct 23 2021 The latest update to Bela Liptak's acclaimed "bible" of instrument engineering is now available. Retaining the format that made the

previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life applications. Expanded coverage includes descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions and innovations in control valves, and a full chapter devoted to safety. With more than 2000 graphs, figures, and tables, this all-inclusive encyclopedic volume replaces an entire library with one authoritative reference. The fourth edition brings the content of the previous editions completely up to date, incorporates the developments of the last decade, and broadens the horizons of the work from an American to a global perspective. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

The Japan Science Review Nov 23 2021

Wireless World Jan 14 2021

Interfirm Networks in the Japanese Electronics Industry Aug 21 2021 Interfirm Networks in the Japanese Electronics Industry analyses changes in production networks in the Japanese electronics industry. Japan's post-war success in the assembly industries is frequently attributed to innovative approaches to the organization of production: Japanese assemblers have tended to forge intricate networks of long-term interfirm business relationships. Traditionally, these networks have been characterized by hierarchical interfirm relationships resembling a pyramid. Paprzycki argues that as a result of global industry dynamics, such monolithic 'pyramidal' production networks have come under mounting pressure and are giving way to an increasing diversity of network arrangements. A major contributing factor is the growing cost and complexity of technology, which forces even the largest manufacturers to look

beyond traditional network boundaries in order to gain access to complementary (technological) assets and capabilities.

Asian Sources Electronic Components Aug 28 2019

Canadian Electronics Engineering Feb 24 2022

Protecting Electrical Equipment Jun 18 2021 How do you protect electrical systems from high energy electromagnetic pulses? This book completes the overview of systems and practices against EMPs from high altitude sources started with the previous "Protecting Electrical Equipment - Good Practices for preventing high altitude electromagnetic pulse impacts", including practical protection methods and means for evaluating their effectiveness.

Digital Protective Relays Apr 28 2022 Digital (microprocessor-based) protection relays (DPR) are dominating the global market today, essentially pushing all other types of relays out of the picture. These devices play a vital role in power operations for fields ranging from manufacturing, transportation, and communication to banking and healthcare. Digital Protective Relays: Problems and Solutions offers a unique focus on the problems and disadvantages associated with their use, a crucial aspect that goes largely unexamined. While there is already a massive amount of literature documenting the benefits of using digital relays, devices as sophisticated as DPR obviously have faults and drawbacks that need to be understood. This book covers these, delving into the less familiar inner workings of DPR to fill a critical literary void and help decision makers and specialists in the field of protection relays find their way out of the informational vacuum. The book provides vital information to assist them in evaluating relay producers' claims and then choose the right product. Tearing away the informational "curtain" that exists today, this book: Describes construction of functional modules of existing relays Analyzes drawbacks and problems of digital relays Details specific technical problems and their solutions Assesses dangers of intentional destructive electromagnetic intrusions Discusses alternative (non-

microprocessor-based) protection relays, and problems related to international standards Focusing on practical solutions, this book explains how to correctly choose digital relays and ensure their proper use while avoiding the many problems they can present. The author avoids mathematics and theory in favor of more practical, tangible information not easily found elsewhere. Setting itself apart from other books on the subject, this volume shines a light into the long hidden "black box" of information

Make: Electronics Sep 21 2021 "This is teaching at its best!" -- Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of Much Ado About Almost Nothing: Man's Encounter with the Electron (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly." --Tom Igoe, author of Physical Computing and Making Things Talk A "magnificent and rewarding book. ... Every step of this structured instruction is expertly illustrated with photos and crisp diagrams. . . . This really is the best way to learn." --Kevin Kelly, in Cool Tools The first edition of Make: Electronics established a new benchmark for introductory texts. This second edition enhances that learning experience. Here you will find unique, photographically precise diagrams of breadboarded components, to help you build circuits with speed and precision. A new shopping guide and a simplified range of components, will minimize your investment in parts for the projects. A completely new section on the Arduino shows you how to write properly structured programs instead of just downloading other people's code. Projects have been reworked to provide additional features, and the book has been restructured to offer a step-by-step learning process that is as clear and visually pleasing on handheld devices as it is on paper. Full color is used throughout. As before, Make: Electronics begins with the basics. You'll see for yourself how components work--and what

happens when they don't. You'll short out a battery and overheat an LED. You'll also open up a potentiometer and a relay to see what's inside. No other book gives you such an opportunity to learn from real-life experiences. Ultimately, you will build gadgets that have lasting value, and you'll have a complete understanding of how they work. From capacitors to transistors to microcontrollers--it's all here. Hans Camenzind, inventor of the 555 Timer (the world's most successful integrated circuit chip), said that "This is teaching at its best!" when he reviewed the first edition. Now the second edition offers even more!