

Online Library Control System  
Book Bhide

# **Control System Book Bhide**

The third edition of the book on Industrial Electronics and Control including Programmable Logic Controller is aimed at

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providing an explicit explanation of the mode of operation of different electronic power devices in circuits and systems that are in wide use today in modern industry for the control and conversion of electric power. The book strives to fulfil this

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need for a fundamental treatment that allows students to understand all aspects of circuit functions through its neatly-drawn illustrations and wave diagrams. Several colour diagrams are included to explain difficult circuits and waveforms.

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This approach will help students in assimilating the operation of power electronics circuits with more clarity. Same as in previous editions, the book commences with a discussion on rectifiers, differential amplifiers, operational amplifiers,

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multivibrators, timers and goes on to provide in-depth coverage of power devices and power electronics circuits such as silicon controlled rectifiers (SCRs), inverters, dual converters, choppers, cycloconverters and their

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applications in the control of ac/dc motors, and heating and welding processes. The book also presents an overview of the modern developments in the field of optoelectronics and fibre optics. Finally, the book ends with a discussion on

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Programmable Logic Controller (PLC). The book has an added advantage of multiple-choice questions, true/false statements, review questions and numerical problems at the end of each chapter, designed to reinforce the student's understanding of

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the concepts and mathematical derivations introduced in the text. The book is intended as a textbook for polytechnic students pursuing courses in electrical engineering, electronics and communication engineering, and electronics and instrumentation



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engineering. This tailor-made book with its exhaustive explanations of circuit operations and its student-friendly approach should prove to be a boon to the students and teachers alike.

**AUDIENCE:** Polytechnic Students  
- pursuing courses in Electrical

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Engineering, Electronics and  
Communication Engineering, and  
Electronics and Instrumentation  
Engineering

Looks at more than a hundred  
modern applications of  
productivity improvement, and  
discusses subplants, international

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manufacturing, and organizational changes. Our prosperity requires the enterprise of innumerable individuals and businesses who exercise their imagination and judgment-and bear responsibility for outcomes. And widespread

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enterprise is fostered through dialogue and relationships, not merely prices in anonymous markets. Yet modern finance blatantly neglects these necessary elements for enterprise. In the last several decades finance has become

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increasingly centralized, distanced, and mechanistic. Instead of many lending officers making judgments about borrowers they know, credit decisions are the output of the models of a few Wall Street wizards and credit agencies. This

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robotic centralized finance stifles the dynamism of the real economy and leads to recurring collapses. A Call for Judgment clearly explains how bad theories and mis-regulation have caused a dangerous divergence between the real economy and finance. In

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simple language Bhide? takes apart the so-called advances in modern finance, showing how backward-looking, top-down models were used to mass-produce toxic products. Thanks to excessively tight securities laws and loose banking laws,

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anonymous transactions have displaced relationship-based finance. And Bhide? offers, tough simple rules for restoring relationships and case-by-case judgment: limit banks--and all deposit taking institutions--to basic lending and nothing else. A



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Call for Judgment is both a primer on the role of finance in a dynamic modern economy, and a cautionary tale about the pitfalls of banks functioning as highly centralized, mechanistic entities. It is essential reading for anyone interested in bringing the

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economy back to a point at which decisions can be made that foster organic economic growth without the potentially disastrous risks currently accepted by modern finance.

In a clear and readable style, Bill Bolton addresses the basic

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principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is

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assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more

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advanced levels of study. Taking a highly practical approach, Bill Bolton combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts.

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Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. An introduction to PLCs and ladder programming is incorporated in the text, as well

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as new information introducing the various software programmes used for simulation. Problems with a full answer section are also included, to aid the reader's self-assessment and learning, and a companion website (for lecturers only) at

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<http://textbooks.elsevier.com>  
features an Instructor's Manual  
including multiple choice  
questions, further assignments  
with detailed solutions, as well as  
additional teaching resources.  
The overall approach of this book  
makes it an ideal text for all



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introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems &

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Automation units of the new Higher National Engineering syllabus from Edexcel. \* Assumes minimal prior mathematical knowledge, creating a highly accessible student-centred text \* Problems, case studies and applications included throughout,

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with a full set of answers at the back of the book, to aid student learning, and place theory in real-world engineering contexts \*

Free online lecturer resources featuring supporting notes, multiple-choice tests, lecturer handouts and further

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assignments and solutions

Industrial Electronics and  
Control

The Origin and Evolution of New  
Businesses

Finding Modern Truth in Ancient  
Wisdom

Recent Advances in Management

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of Multiple Pregnancy  
Redefining the Nuclear Threat  
Reinventing the Factory II  
Designed primarily as a  
textbook for senior  
undergraduate students  
pursuing courses in  
Electrical and Electronics

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Engineering, this book gives the basic knowledge required for power system planning, operation and control. The contents of the book are presented in simple, precise and systematic manner with lucid explanation so that

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the readers can easily understand the underlying principles. The book deals with the per phase analysis of balanced three-phase system, per unit values and application including modelling of generator,

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transformer, transmission line and loads. It explains various methods of solving power flow equations and discusses fault analysis (balanced and unbalanced) using bus impedance matrix. It describes various



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concepts of power system stability and explains numerical methods such as Euler method, modified Euler method and Runge-Kutta methods to solve Swing equation. Besides, this book includes flow chart for

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computing symmetrical and unsymmetrical fault current, power flow studies and for solving Swing equation. It is also fortified with a large number of solved numerical problems and short-answer questions with

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answers at the end of each chapter to reinforce the students understanding of concepts. This textbook would also be useful to the postgraduate students of power systems engineering as a reference.

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Many warn that the next stage of globalization--the offshoring of research and development to China and India--threatens the foundations of Western prosperity. But in *The Venturesome Economy*,

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acclaimed business and economics scholar Amar Bhide shows how wrong the doomsayers are. Using extensive field studies on venture-capital-backed businesses to examine how technology really advances

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in modern economies, Bhide explains why know-how developed abroad enhances--not diminishes--prosperity at home, and why trying to maintain the U.S. lead by subsidizing more research or

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training more scientists will do more harm than good. When breakthrough ideas have no borders, a nation's capacity to exploit cutting-edge research regardless of where it originates is crucial: "venturesome

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consumption"--the willingness and ability of businesses and consumers to effectively use products and technologies derived from scientific research--is far more important than having a share of such research. In



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fact, a venturesome economy benefits from an increase in research produced abroad: the success of Apple's iPod, for instance, owes much to technologies developed in Asia and Europe. Many players--entrepreneurs,

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managers, financiers, salespersons, consumers, and not just a few brilliant scientists and engineers--have kept the United States at the forefront of the innovation game. As long as their

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venturesome spirit remains  
alive and well, advances  
abroad need not be feared.  
Read The Venturesome Economy  
and learn why--and see how  
we can keep it that way.  
|Introduction|Operating  
Principles And Relays

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Construction|Apparatus  
Protection|Theory Of Arc  
Interruption|Fuses|Circuit  
Breakers|Protection Against  
Over Voltage|References  
Looks at America's defense  
strategy, explains the  
importance of military

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command and control  
channels, and assesses their  
vulnerability to nuclear  
attack

Year book

Concept, Theory and Practice

Arias' Practical Guide to

High-Risk Pregnancy and

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Delivery - E-Book

Chocolate Wars

Volume 2: Advances in Bio-  
inoculants

Volpe's Neurology of the  
Newborn E-Book

**Few would deny the crucial role that  
entrepreneurs play in our increasingly**

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**global economy-but exactly what is this vital, yet loosely defined business force we call the entrepreneurial spirit? This landmark study is the first to examine analytically the nature of the opportunities that entrepreneurs pursue, the problems they face, the traits they require, and the social and**

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**economic contributions they make. Until recently, entrepreneurs have been largely ignored in modern economic theory. But at the dawn of a networked age, marked by the advent of e-business and the home office, there's no question that entrepreneurs have recaptured the popular imagination. Studies now show**



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**that most men and women dream of starting their own businesses rather than rising through the corporate ranks. Yet in spite of increased attention by many of today's leading business schools, entrepreneurship has remained largely a mystery, an apparently intuitive sense of values possessed by**

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**certain individuals.; This book targets the issues central to successful start-up ventures, such as endowments and opportunities, planning versus adaptation, securing resources, corporate initiatives, venture capital, revolutionary ventures and the evolution of fledgling businesses.**

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**Focusing on hard data and evaluations of numerous start-up businesses, including many of today's major industry leaders, this book presents a new economic model-a key to understanding the guts, determination, luck and skills that constitute the underpinnings of corporate success.**

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**Written in clear, concise prose, *The Origin and Evolution of New Businesses* goes behind the charts and graphs of business theory to the true heart of success. It is essential reading for business students, would-be entrepreneurs, or executives wanting to incorporate the vitality of the**

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**entrepreneurial spirit into their organization.**

**The bestselling author of *The Righteous Mind* and *The Coddling of the American Mind* draws on philosophical wisdom and scientific research to show how the meaningful life is closer than you think *The Happiness Hypothesis* is**

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**a book about ten Great Ideas. Each chapter is an attempt to savor one idea that has been discovered by several of the world's civilizations -- to question it in light of what we now know from scientific research, and to extract from it the lessons that still apply to our modern lives and illuminate the causes**

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**of human flourishing. Award-winning psychologist Jonathan Haidt, the author of *The Righteous Mind* and *The Coddling of the American Mind*, shows how a deeper understanding of the world's philosophical wisdom and its enduring maxims -- like "do unto others as you would have others do unto you,"**

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**or "what doesn't kill you makes you stronger" -- can enrich and even transform our lives.**

**This book proposes new control and protection schemes to improve the overall stability and security of future wide-area power systems. It focuses on the high penetration levels of renewable**



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**energy sources and distributed generation, particularly with the trend towards smart grids. The control methods discussed can improve the overall stability in normal and abnormal operation conditions, while the protection methods presented can be used to ensure the secure operation of**

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**systems under most severe contingencies. Presenting stability, security, and protection methods for power systems in one concise volume, this book takes the reader on a journey from concepts and fundamentals to the latest and future trends in each topic covered, making it an informative and**

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**intriguing read for researchers, graduate students, and practitioners alike.**

**The incidence of multiple pregnancies has increased with the increasing use of assisted reproductive techniques. This super-specialty title intends to cover basic epidemiology, associated**

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**complications and management of multiple pregnancy. The aim of this book is to provide a comprehensive, up to date and an evidenced-based discussion of multiple pregnancy and recent advances in its management. The chapters are divided in such a way that all three trimesters are discussed**

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**separately with all the relevant details. Pedagogical features like learning objectives, key learning points, text in highlighted boxes throughout the chapters provide the essential knowledge. Ideal for postgraduate students – MS and DNB, practitioner segment in obstetrics and gynaecology**

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**Management & Change  
Analysis, Simulation, and Estimation  
A Call for Judgment  
Wide Area Power Systems Stability,  
Protection, and Security  
Bloodsport  
Principles and Applications, Fourth  
Edition**

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***This book explores various applications of deep learning-oriented diagnosis leading to decision support, while also outlining the future face of medical decision support systems. Artificial intelligence***

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***has now become a ubiquitous aspect of modern life, and especially machine learning enjoys great popularity, since it offers techniques that are capable of learning from samples to solve newly encountered***



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***cases. Today, a recent form of machine learning, deep learning, is being widely used with large, complex quantities of data, because today's problems require detailed analyses of more data. This is critical, especially in***

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***fields such as medicine.***

***Accordingly, the objective of this book is to provide the essentials of and highlight recent applications of deep learning architectures for medical decision support systems. The***

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***target audience includes scientists, experts, MSc and PhD students, postdocs, and any readers interested in the subjects discussed. The book can be used as a reference work to support courses on artificial***

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***intelligence, machine/deep learning, medical and biomedical education.***

***Power system protection systems have three basic components: Instrument transformers, Relays, Circuit***

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***breakers The function of the CT is to reproduce in its secondary winding a current  $I'$  that is proportional to the primary current  $I$ . The CT converts primary currents in the kiloamp range to secondary currents in***

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***the 0–5 ampere range for convenience of measurement. The function of the relay is to discriminate between normal operation and fault conditions. The OC relay in Figure 2 has an operating coil, which is***

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***connected to the CT secondary winding, and a set of contacts. When  $|I|$  exceeds a specified "pickup" value, the operating coil causes the normally open contacts to close. When the relay contacts close, the trip coil of the***

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***circuit breaker is energized, which then causes the circuit breaker to open. System-protection components have the following design criteria:  
Reliability: Operate dependably when fault conditions occur,***



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***even after remaining idle for months or years. Failure to do so may result in costly damages. Selectivity: Avoid unnecessary, false trips. Speed: Operate rapidly to minimize fault duration and equipment damage. Any***

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***intentional time delays should be precise. Economy: Provide maximum protection at minimum cost. Simplicity: Minimize protection equipment and circuitry. Since it is impossible to satisfy all these criteria***

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***simultaneously, compromises must be made in system protection. The book consists from the following sections:  
Chapter 1: Power System Faults:  
Chapter 2: Instrument Transformers. Chapter 3:***

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***Overcurrent and Earth Fault  
Protection Relays. Chapter 4:  
Radial System Protection.  
Chapter 5: Zones of Protection.  
Chapter 6: Differential Relays.  
Chapter 7: Distance Relays.  
Chapter 8: Transformer***

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***Protection. Chapter 9: Generator Protection. Chapter 10: Busbar Protection. Chapter 11: Circuit Breakers. Chapter 12: Fuses. Chapter 13: References.***  
***This textbook, in its second edition aims to provide***

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***undergraduate students of  
Electrical Engineering with a  
unified treatment of all aspects  
of modern power systems,  
including generation,  
transmission and distribution of  
electric power, load flow studies,***

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***economic considerations, fault analysis and stability, high voltage phenomena, system protection, power control, and so on. The text systematically deals with the fundamental techniques in power systems, coupled with***

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***adequate analytical techniques and reference to practices in the field. Special emphasis is placed on the latest developments in power system engineering. The book will be equally useful to the postgraduate students***



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***specialising in power systems  
and practising engineers as a  
reference. NEW TO THIS  
EDITION • Chapters on Elements  
of Electric Power Generation and  
Power System Economics are  
thoroughly updated. • A new***

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***Chapter on Control of Active and Reactive Power is added.***

***Awarded second place in the 2017 AJN Book of the Year***

***Awards in the Information Technology category. See how information technology***

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***intersects with health care!  
Health Informatics: An  
Interprofessional Approach, 2nd  
Edition prepares you for success  
in today's technology-filled  
healthcare practice. Concise  
coverage includes information***

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***systems and applications such as electronic health records, clinical decision support, telehealth, ePatients, and social media tools, as well as system implementation. New to this edition are topics including data***

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***science and analytics, mHealth, principles of project management, and contract negotiations. Written by expert informatics educators Ramona Nelson and Nancy Staggers, this edition enhances the book that***

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***won a 2013 American Journal of Nursing Book of the Year award! Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics — a key Quality and Safety Education for***

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***Nurses (QSEN) initiative and a growing specialty area in nursing. Case studies encourage higher-level thinking about how concepts apply to real-world nursing practice. Discussion questions challenge you to think***

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***critically and to visualize the future of health informatics. Objectives, key terms and an abstract at the beginning of each chapter provide an overview of what you will learn. Conclusion and Future Directions section at***



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***the end of each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation. NEW! Updated chapters reflect the current and evolving practice of health***

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***informatics, using real-life healthcare examples to show how informatics applies to a wide range of topics and issues. NEW mHealth chapter discusses the use of mobile technology, a new method of health delivery —***

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***especially for urban or under-served populations — and describes the changing levels of responsibility for both patients and providers. NEW Data Science and Analytics in Healthcare chapter shows how***

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***Big Data — as well as analytics using data mining and knowledge discovery techniques — applies to healthcare. NEW Project Management Principles chapter discusses proven project management tools and***

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***techniques for coordinating all types of health informatics-related projects. NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor. NEW Legal***

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***Issues chapter explains how federal regulations and accreditation processes may impact the practice of health informatics. NEW HITECH Act chapter explains the regulations relating to health informatics in***

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***the Health Information  
Technology for Education and  
Clinical Health Act as well as the  
Meaningful Use and Medicare  
Access & CHIP Reauthorization  
Act of 2015.  
Cato Policy Report***

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***ELECTRICAL POWER SYSTEMS  
Roy and Fraunfelder's Current  
Ocular Therapy E-Book  
When Ruthless Dealmakers,  
Shrewd Ideologues, and  
Brawling Lawyers Toppled the  
Corporate Establishment***



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### ***Fundamentals of Nursing' 2004 Ed.2004 Edition***

### ***The Venturesome Economy***

The third edition of the book, Practical Guide to High-Risk Pregnancy and Delivery, has been completely revised to present more up-to-date approach to the field. Several changes have

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been made in the book to keep up with multiple new developments and to facilitate the finding of information. However, the purpose of the book remains unchanged: to provide residents in Obstetrics and Gynecology, fellows in Maternal-Fetal Medicine, obstetricians, general

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physicians, and interested nurses and medical students with a source of practical information about complications of pregnancy. The book is organized into three sections: Fetal Medicine, Obstetrical Complications and Tropical Diseases in Pregnancy  
All chapters have been rearranged,

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expanded, and updated Several new flowcharts, tables, and boxes have been included to make the coverage more comprehensive and contemporary Important points at the end of every chapter help in quick recapitulation. Separate chapters on Hypertensive Disorders in Pregnancy,

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Diabetes and Pregnancy, and Cardiac Diseases in Pregnancy.

While the number of vector-borne diseases and their incidence in Europe is much less than in tropical and/or developing countries, there are nevertheless a substantial number of such infections in Europe. The most

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important one is the zoonotic arbovirus infection Tick-Borne Encephalitis (TBE), a virus transmitted to humans by ticks or by consumption of unpasteurized dairy products from infected cows, goats, or sheep. TBE is endemic in the non-tropical Eurasian forest belt with most cases occurring in

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Russia and in central and eastern parts of Europe. In endemic areas, TBE is one of the most important causes of viral meningitis/encephalitis and a major public health concern. Moreover, TBE is becoming more and more frequent in Europe due to the appearance of new endemic areas

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and increasing awareness. However, it might be difficult to diagnose TBE, because clinical manifestations tend to be relatively nonspecific. Although a standardized case definition across the European Union has existed now for a few years, national implementation of TBE programs,



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including regular screening and diagnosis, are done in only very few countries. Therefore, wide differences in the intensity and quality of national surveillance of TBE cases still exist, and the true burden of disease and the areas with circulation of the TBE viral subtypes in Europe and Asia are not

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fully known. Moreover, although safe and effective vaccines are available, vaccination uptake in most endemic countries is too low to reduce the TBE burden significantly. The authors of “The TBE Book ’ therefore have tried to compile in this “working book” the most recent and relevant aspects of

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TBE.

Featuring the most accurate, current, and clinically relevant information available, Perry 's Maternal Child Nursing Care in Canada combines essential maternity and pediatric nursing information in one text.

Comprehensive coverage includes

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promotion of wellness and the care for persons experiencing common health concerns throughout the lifespan, care in childbearing, as well as the health care of children and child development in the context of the family. Health concerns, including physiological dysfunctions and special needs and

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illnesses, are also featured. This text provides a family-centred care approach that recognizes the importance of collaboration with families when providing care. Medication Alerts stress medication safety concerns for better therapeutic management. Safety Alerts highlighted

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and integrated within the content draw attention to developing competencies related to safe nursing practice.

Research Focus boxes identify best practices by presenting evidence and how to apply the knowledge learned.

Atraumatic Care boxes in the pediatric unit teach you how to provide

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competent and effective care to pediatric patients with the least amount of physical or psychological stress. Community Focus boxes emphasize community issues, supply resources and guidance, and illustrate nursing care in a variety of settings. Clinical reasoning case studies offer

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you opportunities to test and develop your analytical skills and apply knowledge in various settings. Cultural Awareness boxes explore beliefs and practices about pregnancy, childbirth, parenting, women's health concerns, and caring for sick children. Evidence-Informed Practice boxes highlight



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findings that confirm effective practices or that identify practices with unknown, ineffective, or harmful effects.

Emergency boxes alert you to emergency situations and guide you step-by-step through emergency procedures. Family-Centred Care boxes highlight the needs or concerns

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of families that you should consider in providing family-centred care.

Guidelines boxes outline nursing procedures in an easy-to-follow format. Home Care boxes detail important information that you need to deliver care to patients and families in the home setting. Medication Guide

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boxes include key information about medications used in maternity and newborn care, including their indications, adverse effects, and nursing considerations. Patient Teaching boxes assist you in helping patients and families become involved in their own care with optimal

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outcomes.

Thoroughly revised edition of this well-known text is prompted by the popularity of the previous edition among both students and practitioners. The revised edition has been endeavoured keeping the key objective of Dr Fernando Arias

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alive—to provide Obs & Gynae residents, fellows in Maternal-Fetal Medicine, obstetricians, general physicians and interested nurses and medical students with a source of practical information about complications of pregnancy. • Most of the chapters have been completely re-

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written. • A new chapter ‘ Impact of Advances in Genetics on Prenatal Diagnosis ’ has been added, which does justice to the enormous advances in the field of Prenatal Genetics in the recent years. • Our understanding of multiple pregnancies has increased considerably. A

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separate chapter on multiple pregnancy has been added given that multiple pregnancies are at high risk of developing problems and therefore require greater attention. • An entire section of intrapartum problems has been added, making this a comprehensive Obstetric text. • The

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editors have managed to persuade leaders in the field to write for this edition. The chapters are authored by researchers working on the coalface. Their first-hand experience, knowledge, wisdom and hard work are evident in this edition.

Maternal Child Nursing Care in



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Canada - E-Book

Health Informatics - E-Book

Solid Waste Management

Power System Stability

Corporate Governance

Physiological Control Systems

***The target readers for this book are***

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*academics and engineers working in universities, research institutes and industry sectors wishing to enhance their knowledge about power system stability. Readers of this book should gain technical ideas and special experience with detailed*

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*information about small signal stability, dynamics, modeling, power oscillations and electrical power infrastructures relating to power system stability. The contents of this book provide many solutions to problems that can be integrated into*

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*larger research findings and projects. The book addresses some power system stability studies such as an overview of power systems and stability criteria, applications of the trajectory sensitivity theory to small signal stability, power system*

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*small signal stability in grid  
connected smart park, power system  
dynamics and modeling. The book  
also describes some recent  
developments in power oscillations  
due to ferroresonance, sub  
synchronous resonance and effects*

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*of climate change in electric power infrastructures.*

*Get the accurate, practical information you need to succeed in the classroom, the clinical setting, and on the NCLEX-RN® examination. Written by the*

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*foremost experts in maternity and pediatric nursing, the user-friendly Maternal Child Nursing Care, 6th Edition provides both instructors and students with just the right amount of maternity and pediatric content. This new edition includes*

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*updated case studies within Nursing Care Plans, as well as a new chapter on pediatric cancer. Focus on the family throughout emphasizes the influence of the entire family in health and illness. Focus on the family throughout*



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*emphasizes the influence of the entire family in health and illness. Expert authors of the market-leading maternity and pediatric nursing textbooks combine to ensure delivery of the most accurate, up-to-date content. Critical thinking case*

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*studies offer you opportunities to test and develop your analytical skills and apply knowledge in various settings. Nursing Care Plans include rationales for interventions and provide you with an overview and specific guidelines*

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*for delivering effective nursing care. Nursing Alerts highlight critical information that you need to know when treating patients. Guidelines boxes outline nursing procedures in an easy-to-follow format. Emergency boxes in the*

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*maternity unit guide you through step-by-step emergency procedures. Home Care boxes detail important information that you need to deliver care to patients and families in the home setting. Atraumatic Care boxes in the pediatric unit teach you*

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*how to provide competent and effective care to pediatric patients with the least amount of physical or psychological stress. Community Focus boxes emphasize community issues, provide resources and guidance, and illustrate nursing*

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*care in a variety of settings. Patient Teaching boxes in the maternity unit highlight important information nurses need to communicate to patients and families. Cultural Competence boxes equip you with the knowledge*

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*you need to deliver culturally competent care. \ Family-Centered Care boxes draw attention to the needs or concerns of families that you should consider to provide family-centered care. Medication Guides serve as an important*

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*reference of drugs and their interactions.*

*Digital power system protection, as a subject, offers the use of computers in power line relaying which is the act of automatically controlling the power system via*



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*instrumentation and control devices. This book is an attempt to make a gentle introduction to the nitty-gritty of digital relays. Written in a simple, clear and student-friendly style, this text covers basics of digital processing of analog signals*

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*for the purpose of relaying. All important basic algorithms that are used in various types of digital relays have been explained. FIR and IIR filters have been presented in such a manner that students will be able to develop intuitive*

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*understanding. The book also covers DFT and FFT and synchrophasor technology in details. MATLAB programs and Excel simulations have been given to reinforce the comprehension of the algorithms. This book has been thoroughly class-*

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*room tested and based on course notes which is primarily intended for undergraduate and postgraduate students of electrical engineering. Key Features • In-depth coverage of DSP fundamentals • Pedagogical tools*

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*like figures, flowcharts, block diagrams and tables have been extensively used • Review questions are given at the end of each chapter • Extensive references to literature on power system protection*

*This book is designed to be concise*

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*with a consistent format so that the clinician can focus on a specific area. This edition has had major modifications and embraces evidence-based medicine. The format includes the CPT codes for billing purposes, short description*

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*of the condition, etiology/incidence, course/prognosis, laboratory findings, differential diagnosis; prophylaxis, treatment (local and systemic, surgical or other), miscellaneous (names and addresses of support groups) and key*

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*references. Incorporates evidence-based medicine so you feel confident that you're formulating the best treatment plans for your patients. Color photos allow you to read about and actually see a picture of select disease entities.*



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*Clear, concise format can be photocopied and distributed to patients in some cases, reducing your time spent explaining problems to patients and caregivers.*

*Fundamentals of Power System  
Protection*

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*The TBE Book*

*Instrumentation and Control  
Systems*

*POWER SYSTEM ANALYSIS*

*Deep Learning for Medical  
Decision Support Systems*

*Practical Guide to High Risk*

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### ***Pregnancy and Delivery - E-Book***

For many years, Protective Relaying: Principles and Applications has been the go-to text for gaining proficiency in the technological fundamentals of power system protection. Continuing in the bestselling

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tradition of the previous editions by the late J. Lewis Blackburn, the Fourth Edition retains the core concepts at the heart of power system analysis. Featuring refinements and additions to accommodate recent technological progress, the text: Explores

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developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid  
Examines the regulations related to

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power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored  
Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis

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Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes Contains an expanded discussion of intertie protection requirements at dispersed generation facilities Providing information on a mixture

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of old and new equipment,  
Protective Relaying: Principles and  
Applications, Fourth Edition reflects  
the present state of power systems  
currently in operation, making it a  
handy reference for practicing  
protection engineers. And yet its  
challenging end-of-chapter



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problems, coverage of the basic mathematical requirements for fault analysis, and real-world examples ensure engineering students receive a practical, effective education on protective systems. Plus, with the inclusion of a solutions manual and figure slides

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with qualifying course adoption, the Fourth Edition is ready-made for classroom implementation.

Study conducted in Delhi, India.

The epic battle of the fascinating, flawed figures behind America's deal culture and their fight over who controls and who benefits from the

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immense wealth of American corporations. Bloodsport is the story of how the mania for corporate deals and mergers all began. The riveting tale of how power lawyers Joe Flom and Marty Lipton, major Wall Street players Felix Rohatyn and Bruce

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Wasserstein, prominent jurists, and shrewd ideologues in academic garb provided the intellectual firepower, creativity, and energy that drove the corporate elite into a less cozy, Hobbesian world. With total dollar volume in the trillions, the zeal for the deal continues

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unabated to this day. Underpinning this explosion in mergers and acquisitions—including hostile takeovers—are four questions that radically disrupted corporate ownership in the 1970s, whose force remains undiminished: Are shareholders the sole “owners” of

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corporations and the legitimate source of power? Should control be exercised by autonomous CEOs or is their assumption of power illegitimate and inefficient? Is the primary purpose of the corporation to generate jobs and create prosperity for the masses and the

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nation? Or is it simply to maximize the wealth of shareholders? This battle of ideas became the “bloodsport” of American business. It set in motion the deal-making culture that led to the financialization of the economy and it is the backstory to ongoing

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debates over competitiveness, job losses, inequality, stratospheric executive pay, and who "owns" America's corporations.

Fuzzy and Neuro-Fuzzy Systems in Medicine provides a thorough review of state-of-the-art techniques and practices, defines and explains



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relevant problems, as well as provides solutions to these problems. After an introduction, the book progresses from one topic to another - with a linear development from fundamentals to applications.

DIGITAL POWER SYSTEM  
PROTECTION

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Protective Relaying

Sensible Finance for a Dynamic  
Economy

Strategic Command and Control

The Happiness Hypothesis

An Interprofessional Approach

**A guide to common control**

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**principles and how they are  
used to characterize a variety  
of physiological mechanisms  
The second edition of  
Physiological Control Systems  
offers an updated and  
comprehensive resource that**

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**reviews the fundamental concepts of classical control theory and how engineering methodology can be applied to obtain a quantitative understanding of physiological systems. The**

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**revised text also contains  
more advanced topics that  
feature applications to  
physiology of nonlinear  
dynamics, parameter  
estimation methods, and  
adaptive estimation and**

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**control. The author—a noted expert in the field—includes a wealth of worked examples that illustrate key concepts and methodology and offers in-depth analyses of selected physiological control models**

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**that highlight the topics presented. The author discusses the most noteworthy developments in system identification, optimal control, and nonlinear dynamical analysis and**

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**targets recent bioengineering advances. Designed to be a practical resource, the text includes guided experiments with simulation models (using Simulink/Matlab).**

**Physiological Control Systems**



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**focuses on common control principles that can be used to characterize a broad variety of physiological mechanisms. This revised resource: Offers new sections that explore identification of nonlinear and**

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**time-varying systems, and  
provide the background for  
understanding the link  
between continuous-time and  
discrete-time dynamic models  
Presents helpful, hands-on  
experimentation with**

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**computer simulation models  
Contains fully updated  
problems and exercises at the  
end of each chapter Written for  
biomedical engineering  
students and biomedical  
scientists, Physiological**

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**Control Systems, offers an updated edition of this key resource for understanding classical control theory and its application to physiological systems. It also contains contemporary topics and**

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**methodologies that shape  
bioengineering research  
today.**

**Biopesticide: Volume Two, the  
latest release in the Advances  
in Bioinoculant series,  
provides an updated overview**

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**on the active substances  
utilized in current  
bioinsecticides, along with  
information on which of them  
can be used for integrated  
pest management programs in  
agro-ecosystems. The book**

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**presents a comprehensive look at the development of novel solutions against new targets, also introducing new technologies that enhance the efficacy of already available active substances. Finally,**

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**readers will find insights into the advanced molecular studies on insect microbial community diversity that are opening new frontiers in the development of innovative pest management strategies.**



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**This book will be valuable to those prioritizing agro biodiversity management to address optimal productizing and enhanced food security. Explores the increasing number of newly introduced**

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**and improved products that  
can be used alone or in  
rotation or combination with  
conventional chemicals  
Promotes the importance of,  
and tactics for, managing the  
agro ecosystem surrounding**

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**food security Provides state of  
the art description of various  
approaches and techniques  
for the real-world application  
of biopesticides  
The extraordinary and  
dramatic story of the**

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**chocolate pioneers—as told by one of the descendants of the Cadbury dynasty—ending with Kraft’s recent takeover of the empire. With a cast of characters straight from a Victorian novel, *Chocolate***

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**Wars tells the story of the great chocolatier dynasties—the Lindts, Frys, Hersheys, Marses and Nestlés—through the prism of the Cadburys. Chocolate was consumed unrefined and**

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**unprocessed as a rather bitter, fatty drink for the wealthy elite until the late 19th century, when the Swiss discovered a way to blend it with milk and unleashed a product that would storm every market in**

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**the world. Thereafter, one of the great global business rivalries unfolded as each chocolate maker attempted to dominate its domestic market and innovate recipes for chocolate that would set it**

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**apart from its rivals. The contest was full of dramatic contradictions: the Cadburys were austere Quakers who found themselves making millions from an indulgent product; Kitty Hershey could**



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**hardly have been more flamboyant, yet her husband was moved by the Cadburys' tradition of philanthropy. Each company was a product of its unique time and place, yet all of them shared one thing: they**

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**want to make the best  
chocolate in the world.  
Chocolate Wars divulges the  
visions and ideals that  
inspired these royal chocolate  
families and, above all, the  
mouth-watering chocolate**

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**concoctions they created that have driven a global transformation of one of our favourite treats. And with the recent purchase of Cadbury's by mega-food manufacturer Kraft, the story is brought**

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**rapidly into the present.  
A clear, engaging writing style,  
hundreds of full-color images,  
and new information  
throughout make Volpe's  
Neurology of the Newborn, 6th  
Edition, an indispensable**

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**resource for those who provide care for neonates with neurological conditions. World authority Dr. Joseph Volpe, along with Dr. Terrie E. Inder and other distinguished editors, continue the**

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**unparalleled clarity and guidance you've come to expect from the leading reference in the field – keeping you up to date with today's latest advances in diagnosis and management, as well as**

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**the many scientific and technological advances that are revolutionizing neonatal neurology. Features a brand new, full-color design with hundreds of new figures, tables, algorithms, and**

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**micrographs. Includes two entirely new chapters: Neurodevelopmental Follow-Up and Stroke in the Newborn; a new section on Neonatal Seizures; and an extensively expanded section on Hypoxic-**



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**Ischemia and Other Disorders.**  
**Showcases the experience**  
**and knowledge of a new**  
**editorial team, led by Dr.**  
**Joseph Volpe and Dr. Terrie E.**  
**Inder, Chair of the Department**  
**of Pediatric Newborn Medicine**

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**at Brigham and Women's  
Hospital, all of whom bring a  
wealth of insight to this  
classic text. Offers  
comprehensive updates from  
cover to cover to reflect all of  
the latest information**

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**regarding the development of  
the neural tube;  
prosencephalic development;  
congenital hydrocephalus;  
cerebellar hemorrhage;  
neuromuscular disorders and  
genetic testing; and much**

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**more. Uses an improved organization to enhance navigation.**

**How Innovation Sustains Prosperity in a More Connected World**

**Multiple Pregnancy- E-book**

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**Fuzzy and Neuro-Fuzzy  
Systems in Medicine  
Research in Management  
3rd Edition  
Introduction to Power System  
Protection**

This title was first published in 2000:

*Page 197/209*

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The study of corporate governance is a relatively modern development, with significant attention devoted to the subject only during the last fifty years. The topics covered in this volume include the purpose of the corporation, the board of directors, the role of shareholders, and more contemporary

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developments like hedge fund activism, the role of sovereign wealth funds, and the development of corporate governance law in what perhaps will become the dominant world economy over the next century, China. The editor has written an introductory essay which briefly

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describes the intellectual history of the field and analyses the material selected for the volume. The papers which have been selected present what the editor believes to be some of the best and most representative studies of the subjects covered. As a result the volume offers a rounded



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view of the contemporary state of the some of the dominant issues in corporate governance.

Power system protection systems have three basic components: Instrument transformers, Relays, Circuit breakers The function of the CT is to reproduce in its secondary

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winding a current  $I'$  that is proportional to the primary current  $I$ . The CT converts primary currents in the kiloamp range to secondary currents in the 0–5 ampere range for convenience of measurement. The function of the relay is to discriminate between normal operation and fault conditions.

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The OC relay in Figure 2 has an operating coil, which is connected to the CT secondary winding, and a set of contacts. When  $|I'|$  exceeds a specified "pickup" value, the operating coil causes the normally open contacts to close. When the relay contacts close, the trip coil of the

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circuit breaker is energized, which then causes the circuit breaker to open. System-protection components have the following design criteria:

- Reliability: Operate dependably when fault conditions occur, even after remaining idle for months or years. Failure to do so may result in costly

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damages. · Selectivity: Avoid unnecessary, false trips. · Speed: Operate rapidly to minimize fault duration and equipment damage. Any intentional time delays should be precise. · Economy: Provide maximum protection at minimum cost. · Simplicity: Minimize protection

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equipment and circuitry. Since it is impossible to satisfy all these criteria simultaneously, compromises must be made in system protection. The book consists from the following sections: 1. Chapter 1: Power System Faults: 2. Chapter 2: Instrument Transformers. 3. Chapter 3: Overcurrent and Earth

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Fault Protection Relays. 4. Chapter 4:  
Radial System Protection. 5. Chapter  
5: Zones of Protection. 6. Chapter 6:  
Differential Relays. 7. Chapter 7:  
Distance Relays. 8. Chapter 8:  
Transformer Protection. 9. Chapter 9:  
Generator Protection. 10. Chapter 10:  
Busbar Protection. 11. Chapter 11:

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Circuit Breakers. 12. Chapter 12:  
Fuses. 13. Chapter 13: References.

Second Survey, 1970-1979

Maternal Child Nursing Care - E-Book

Biopesticides

Values, Ethics and Leadership

Power System Switchgear and

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A South Asian Perspective