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This book has evolved by processes of selection and expansion from its predecessor, Practical Scanning Electron Microscopy (PSEM), published by Plenum Press in 1975. The interaction of the authors with

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students at the Short Course on Scanning Electron Microscopy and X-Ray Microanalysis held annually at Lehigh University has helped greatly in developing this textbook. The material has been chosen to provide a student with a general introduction to the techniques of scanning electron

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microscopy and x-ray microanalysis suitable for application in such fields as biology, geology, solid state physics, and materials science. Following the format of PSEM, this book gives the student a basic knowledge of (1) the user-controlled functions of the electron optics of the

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scanning electron microscope and electron microprobe, (2) the characteristics of electron-beam-sample interactions, (3) image formation and interpretation, (4) x-ray spectrometry, and (5) quantitative x-ray microanalysis. Each of these topics has been updated and in most

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cases expanded over the material presented in PSEM in order to give the reader sufficient coverage to understand these topics and apply the information in the laboratory. Throughout the text, we have attempted to emphasize practical aspects of the techniques, describing

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those instrument parameters which the microscopist can and must manipulate to obtain optimum information from the specimen. Certain areas in particular have been expanded in response to their increasing importance in the SEM field. Thus energy-dispersive x-ray

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spectrometry, which has undergone a tremendous surge in growth, is treated in substantial detail.

"...a must-read text that provides a historical lens to see how ubicomp has matured into a multidisciplinary endeavor. It will be an essential reference to researchers and those

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who want to learn more about this evolving field." -From the Foreword, Professor Gregory D. Abowd, Georgia Institute of Technology First introduced two decades ago, the term ubiquitous computing is now part of the common vernacular. Ubicomp, as it is commonly called, has grown not just

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quickly but broadly so as to encompass a wealth of concepts and technology that serves any number of purposes across all of human endeavor. While such growth is positive, the newest generation of ubicomp practitioners and researchers, isolated to specific tasks,

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are in danger of losing their sense of history and the broader perspective that has been so essential to the field's creativity and brilliance. Under the guidance of John Krumm, an original ubicomp pioneer, Ubiquitous Computing Fundamentals brings together eleven ubiquitous computing

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trailblazers who each report on his or her area of expertise. Starting with a historical introduction, the book moves on to summarize a number of self-contained topics. Taking a decidedly human perspective, the book includes discussion on how to observe people in their natural environments and

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evaluate the critical points where ubiquitous computing technologies can improve their lives. Among a range of topics this book examines: How to build an infrastructure that supports ubiquitous computing applications
Privacy protection in systems that connect personal devices and

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personal information Moving from the graphical to the ubiquitous computing user interface Techniques that are revolutionizing the way we determine a person's location and understand other sensor measurements While we needn't become expert in every sub-discipline of ubicomp, it is necessary

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that we appreciate all the perspectives that make up the field and understand how our work can influence and be influenced by those perspectives. This is important, if we are to encourage future generations to be as successfully innovative as the field's originators.

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Michigan Manual

The ICU Book

400 Terrific and Comforting Recipes

Full of Big, Bright Flavors and Loads of
Down-Home Goodness

Atlantic Educational Journal

Everything You Wanted to Know about
the Science of Raising Children but

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Were Too Exhausted to Ask
Moody's Transportation Manual
Climate adaptation is a timely yet
complex topic that does not fit
squarely into any one disciplinary
realm. Geospatial Applications for
Climate Adaptation Planning

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presents an overview of the range of strategies, tools, and techniques that must be used to assess myriad overlapping vulnerabilities and to formulate appropriate climate-relevant solutions at multiple scales and in varying contexts. Organized

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into four sections, the book includes 15 chapters. Each chapter is grounded in the literature and presents case studies designed by the authors, as well as many examples from a diverse international group of scholars and entities in the public

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and private sectors. Areas covered include: Climate Change and Climate Adaptation Planning: Context and Concepts Geospatial Technologies: Fundamentals and Terminology GIS and Climate Vulnerability Assessments Technical

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Approaches to Formulating
Mitigation and Adaptation Strategies
Geospatial Applications for Climate
Adaptation Planning is aimed at
advanced students, researchers, and
entities in the public and private
sectors. It also provides

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supplementary reading for courses in planning, public administration, policy studies, and disaster management.

A fundamental and respected resource book in critical care, *The ICU Book, Fourth Edition*, continues

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to provide the current and practical guidance that have made it the best-selling text in critical care. The text addresses both the medical and surgical aspects of critical care, delivering the guidance needed to ensure sound, safe, and effective

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treatment for patients in intensive care?regardless of the specialty focus of the unit. This version does not include the updates and other functionality included in the tablet version that accompanies the print edition.

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TM.

Handbook for the Accident
Reconstructionist

Moody's Manual of Investments,
American and Foreign

Power System Analysis

Beneath Apple DOS

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The Congregationalist and Advance
The definitive book on Texas
cooking-which has been
influenced by cuisines around
the world, including Eastern
Europe and Mexico-by
distinguished food writers Cheryl

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and Bill Jamison, who traveled for two years around the state talking with home cooks, chefs, barbecue experts, fishermen, and farmers. Chapters include "Real Pit-Smoked Bar-B-Q," "Tamed Game," "Farm-Fresh

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Vegetables," "Eye-Popping,
Heart-Thumping Breakfasts,"
"Football Food," and "Y'All-Come-
Back Desserts."

During the past 20 years, there
has been enormous productivity
in theoretical as well as

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computational integration. Some attempts have been made to find an optimal or best numerical method and related computer code to put to rest the problem of numerical integration, but the research is continuously

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ongoing, as this problem is still very much open-ended. The importance of numerical integration in so many areas of science and technology has made a practical, up-to-date reference on this subject long

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overdue. The Handbook of Computational Methods for Integration discusses quadrature rules for finite and infinite range integrals and their applications in differential and integral equations, Fourier integrals and

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transforms, Hartley transforms, fast Fourier and Hartley transforms, Laplace transforms and wavelets. The practical, applied perspective of this book makes it unique among the many theoretical books on numerical

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integration and quadrature. It will be a welcomed addition to the libraries of applied mathematicians, scientists, and engineers in virtually every discipline.

Lithium-ion Batteries

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Government Reports Annual
Index

Technical Manual

Cumulated Index Medicus

Parentology

Comparative Semitic Linguistics

This is an introduction to

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power system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK

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throughout.

Chapter 1: System Studies

-- Chapter 2: Drawings and

Diagrams -- Chapter 3:

Substation Layouts --

Chapter 4: Substation

Auxiliary Power Supplies

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-- Chapter 5: Current and Voltage Transformers --
Chapter 6: Insulators --
Chapter 7: Substation Building Services --
Chapter 8: Earthing and Bonding -- Chapter 9:

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Insulation Co-ordination

-- Chapter 10: Relay

Protection -- Chapter 11:

Fuses and Miniature

Circuit Breakers --

Chapter 12: Cables --

Chapter 13: Switchgear --

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Chapter 14: Power
Transformers -- Chapter
15: Substation and
Overhead Line Foundations
-- Chapter 16: Overhead
Line Routing -- Chapter
17: Structures, Towers and

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Poles -- Chapter 18:
Overhead Line Conductor
and Technical
Specifications -- Chapter
19: Testing and
Commissioning -- Chapter
20: Electromagnetic

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Compatibility -- Chapter
21: Supervisory Control
and Data Acquisition --
Chapter 22: Project
Management -- Chapter 23:
Distribution Planning --
Chapter 24: Power Quality-

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Harmonics in Power Systems
-- Chapter 25: Power Qual

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Ubiquitous Computing
Fundamentals

Proceedings of the ...
Continental Congress of

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the National Society of
the Daughters of the
American Revolution
Marino's The ICU Book
A Machine-generated
Summary of Current
Research

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War Department Technical
Manual

Moody's OTC Industrial
Manual

***Michigan Manual Technical
ManualTM.War Department
Technical ManualThe United***

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***States Government
Manual Parentology Everything
You Wanted to Know about the
Science of Raising Children but
Were Too Exhausted to Ask Simon
and Schuster
Sections 1-2. Keyword
Index.--Section 3. Personal***

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***author index.--Section 4.
Corporate author index.-- Section
5. Contract/grant number index,
NTIS order/report number index
1-E.--Section 6. NTIS order/report
number index F-Z.
Texas Home Cooking
A Manual***

RCA Engineer

A Series of Critical Reviews

***Scanning Electron Microscopy
and X-Ray Microanalysis***

Piping Handbook

Creep-resistant steels are widely used in the petroleum, chemical and power generation industries. Creep-resistant steels must be

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reliable over very long periods of time at high temperatures and in severe environments. Understanding and improving long-term creep strength is essential for safe operation of plant and equipment. This book provides an authoritative summary of key research in this important area. The first part of the

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book describes the specifications and manufacture of creep-resistant steels. Part two covers the behaviour of creep-resistant steels and methods for strengthening them. The final group of chapters analyses applications in such areas as turbines and nuclear reactors. With its distinguished editors and international team of

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contributors, Creep-resistant steels is a valuable reference for the power generation, petrochemical and other industries which use high strength steels at elevated temperatures. Describes the specifications and manufacture of creep-resistant steels Strengthening methods are discussed in detail Different applications

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are analysed including turbines and nuclear reactors

An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of

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Battle Hymn of the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-

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needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving

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them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and

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happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same

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time.

The Century Dictionary and Cyclopedia

The United States Government Manual

Geospatial Applications for Climate

Adaptation Planning

Structure, Alteration, and Mineralization

Southwest Pacific Rim Gold-copper Systems

Transmission and Distribution Electrical

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Engineering

As the title indicates, this unique resource is a manual on comparative linguistics, with the examples taken exclusively from Semitic languages. It is an innovative volume that recalls the earlier tradition of textbooks of comparative philology, which, however,

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exclusively treated Indo-European languages. It is suited for students with at least a year of a Semitic language. By far the largest component of the book are the nine wordlists that provide the data to be manipulated by the student. Says reviewer Peter Daniels, the wordlists "constitute a unique resource

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for all of comparative linguistics--a considerable quantity of uniform data from a host of related languages. They would be useful for any class in comparative linguistics, not just for those interested specifically in Semitic." Scattered throughout the text are 25 exercises based on the wordlists that

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provide a good introduction to the methods of comparativists. Also included are paradigms of the phonological systems of ten Semitic languages as well as Coptic and a form of Berber. A bibliography that guides the student into further reading in Semitic linguistics completes the

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volume.

"This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research.

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This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-

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corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode

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and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions

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on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and

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domain experts, about the future opportunities, challenges and limitations of this technology."--Publisher's website.

Metallurgical Progress

**Handbook of Computational Methods
for Integration**

Mergent Industrial Manual

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**Computational Methods for Multiphase
Flow**

**Government Reports Announcements &
Index**

Premanufacture Notification

**This best-selling resource
provides a general**

overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It

**provides enough detailed
and specific information
to address most all
questions and problems
that arise in the ICU.
Emphasis on fundamental
principles in the text**

should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the

ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to reinforce concepts.

The first and only

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guidance document to help applicants from chemical manufacturers obtain approval to synthesize and manufacture a chemical compound. Written by

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two EPA scientists, it provides coverage of chemical information needed for risk assessment to satisfy the requirements of the PMN review process and

**comply with the Toxic
Substance Control Act.
Candy and Snack Industry
The Congregationalist
Banks, insurance
companies, investment
trusts, real estate,**

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**finance and credit
companies
Michigan Official
Directory and Legislative
Manual
Chemistry Assistance for
Submitters**

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Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook, edited by Mohinder L.

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Nayyar, with contribution from top experts in the field. The Handbook's 43 chapters--14 of them new to this edition--and 9 new appendices provide, in one place, everything you need to work with any type of piping, in any type of piping system: design layout selection of materials

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fabrication and components operation
installation maintenance This world-
class reference is packed with a
comprehensive array of analytical
tools, and illustrated with fully-worked-
out examples and case histories.
Thoroughly updated, this seventh
edition features revised and new

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information on design practices, materials, practical applications and industry codes and standards--plus every calculation you need to do the job.

Newtonian mechanics : dynamics of a point mass (1001-1108) - Dynamics of a system of point masses

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(1109-1144) - Dynamics of rigid bodies (1145-1223) - Dynamics of deformable bodies (1224-1272) - Analytical mechanics : Lagrange's equations (2001-2027) - Small oscillations (2028-2067) - Hamilton's canonical equations (2068-2084) - Special relativity (3001-3054).

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Creep-Resistant Steels

A Text for Biologists, Materials
Scientists, and Geologists

Problems and Solutions on Mechanics

Companies traded over the counter or on
regional conferences.

Thanks to high-speed computers and
advanced algorithms, the important field

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of modelling multiphase flows is an area of rapid growth. This one-stop account – now in paperback, with corrections from the first printing – is the ideal way to get to grips with this topic, which has significant applications in industry and nature. Each chapter is written by an acknowledged expert and includes

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extensive references to current research. All of the chapters are essentially independent and so the book can be used for a range of advanced courses and the self-study of specific topics. No other book covers so many topics related to multiphase flow, and it will therefore be warmly welcomed by researchers and

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graduate students of the subject across engineering, physics, and applied mathematics.