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**KEY=YSIS - CARLO SLADE**

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## 100 Cases in Clinical Medicine, Second Edition

CRC Press 100 Cases in Clinical Medicine is an indispensable revision tool for medical students preparing for clinical examinations or OSCEs. Using scenarios which mimic daily life, the cases will interest students in clinical problems and help them develop their clinical reasoning skills, with each case presenting details of a patient's medical history and the key findings of a clinical examination, together with initial investigation results for evaluation. Key questions then prompt the student to evaluate the patient, and reach a decision regarding their condition and the possible management plan, while the answer pages will help the student to understand the processes that a clinician goes through in dealing with the problems presented. Contents are organised to provide a quick review of each body system, with a selection of cases relevant to that specific system, then the majority are presented randomly to mimic real life in a GP surgery or emergency department. New to this edition: a review of each body system as well as random cases; new page

design with a second colour used throughout; and brought up-to-date with 25% new cases.

# Flow-Induced Pulsation and Vibration in Hydroelectric Machinery

## Engineer's Guidebook for Planning, Design and Troubleshooting

Springer Science & Business Media Since the 1970's, an increasing amount of specialized research has focused on the problems created by instability of internal flow in hydroelectric power plants. However, progress in this field is hampered by the interdisciplinary nature of the subject, between fluid mechanics, structural mechanics and hydraulic transients. Flow-induced Pulsation and Vibration in Hydroelectric Machinery provides a compact guidebook explaining the many different underlying physical mechanisms and their possible effects. Typical phenomena are described to assist in the proper diagnosis of problems and various key strategies for solution are compared and considered with support from practical experience and real-life examples. The link between state-of the-art CFD computation and notorious practical problems is discussed and quantitative data is provided on normal levels of vibration and pulsation so realistic limits can be set for future projects. Current projects are also addressed as the possibilities and limitations of reduced-scale model tests for prediction of prototype performance are explained. Engineers and project planners struggling with the practical problems will find Flow-induced Pulsation and Vibration in Hydroelectric Machinery to be a comprehensive and convenient reference covering key topics and ideas across a range of relevant disciplines.

## Handbook of Pumps and Pumping

# Pumping Manual International

*Elsevier* Written by an experienced engineer, this book contains practical information on all aspects of pumps including classifications, materials, seals, installation, commissioning and maintenance. In addition you will find essential information on units, manufacturers and suppliers worldwide, providing a unique reference for your desk, R&D lab, maintenance shop or library. \* Includes maintenance techniques, helping you get the optimal performance out of your pump and reducing maintenance costs \* Will help you to understand seals, couplings and ancillary equipment, ensuring systems are set up properly to save time and money \* Provides useful contacts for manufacturers and suppliers who specialise in pumps, pumping and ancillary equipment

# Hydrodynamics of Pumps

*Cambridge University Press* Hydrodynamics of Pumps is a reference for pump experts and a textbook for advanced students. It examines the fluid dynamics of liquid turbomachines, particularly pumps, focusing on special problems and design issues associated with the flow of liquid through a rotating machine. There are two characteristics of a liquid that lead to problems and cause a significantly different set of concerns than those in gas turbines. These are the potential for cavitation and the high density of liquids, which enhances the possibility of damaging, unsteady flows and forces. The book begins with an introduction to the subject, including cavitation, unsteady flows and turbomachinery, basic pump design and performance principles. Chapter topics include flow features, cavitation parameters and inception, bubble dynamics, cavitation effects on pump performance, and unsteady flows and vibration in pumps - discussed in the three final chapters. The book is richly illustrated and includes many practical examples.

# Concepts of Simultaneity

# From Antiquity to Einstein and Beyond

*JHU Press* [Publisher description](#)

# STAR

## Endocrinology and Diabetes

### Case Studies, Questions and Commentaries

*Springer* This book provides case studies accompanied by questions and commentaries for the specialist registrar in diabetes and endocrinology, to assist with problem-based learning during their training. The case studies range from the everyday to the rare and complicated, presenting a strong foundation for the specialist trainee to prepare them for their qualifying exams and, more importantly, for their future clinical consultations.

## Exploring ODEs

*SIAM* Exploring ODEs is a textbook of ordinary differential equations for advanced undergraduates, graduate students, scientists, and engineers. It is unlike other books in this field in that each concept is illustrated numerically via a few lines of Chebfun code. There are about 400 computer-generated figures in all, and Appendix B presents 100 more examples as templates for further exploration.?

## Pump Characteristics and Applications, Second Edition

*CRC Press* This hands-on reference offers a practical introduction to pumps and provides the tools necessary to select, size, operate, and maintain pumps properly. It highlights the interrelatedness of pump engineering from system and piping design to installation and startup. This updated second edition expands on many subjects introduced in the first edition and also provides new in-depth discussion of pump couplings, o-rings, motors, variable frequency drives, pump life-cycle cost, corrosion, and pump minimum flow. Written by an acclaimed expert in the field, Pump Characteristics and Applications, Second Edition is an invaluable day-to-day reference for mechanical, civil, chemical, industrial, design, plant, project, and systems engineers; engineering supervisors; maintenance technicians; and plant operators. It is also an excellent text for upper-level undergraduate and graduate students in departments of mechanical engineering, mechanical engineering technology, or engineering technology. About the Author Michael W.

Volk, P.E., is President of Volk & Associates, Inc., Oakland, California (www.volkassociates.com), a consulting company specializing in pumps and pump systems. Volk's services include pump training seminars; pump equipment evaluation, troubleshooting, and field testing; expert witness for pump litigation; witnessing of pump shop tests; pump market research; and acquisition and divestiture consultation and brokerage. A member of the American Society of Mechanical Engineers (ASME), and a registered professional engineer, Volk received the B.S. degree (1973) in mechanical engineering from the University of Illinois, Urbana, and the M.S. degree (1976) in mechanical engineering and the M.S. degree (1980) in management science from the University of Southern California, Los Angeles.

# Transmission Electron Microscopy Diffraction, Imaging, and Spectrometry

*Springer* This text is a companion volume to Transmission Electron Microscopy: A Textbook for Materials Science by Williams and Carter. The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed in the primary text. World-renowned researchers have contributed chapters in their area of expertise, and the editors have carefully prepared these chapters to provide a uniform tone and treatment for this exciting material. The book features an unparalleled collection of color figures showcasing the quality and variety of chemical data that can be obtained from today's instruments, as well as key pitfalls to avoid. As with the previous TEM text, each chapter contains two sets of questions, one for self assessment and a second more suitable for homework assignments. Throughout the book, the style follows that of Williams & Carter even when the subject matter becomes challenging—the aim is always to make the topic understandable by first-year graduate students and others who are working in the field of Materials Science Topics covered include sources, in-situ experiments, electron diffraction, Digital Micrograph, waves and holography, focal-series reconstruction and direct methods, STEM and tomography, energy-filtered TEM (EFTEM) imaging, and spectrum imaging. The range and depth of material makes this companion volume essential reading for the budding microscopist and a key reference for practicing researchers using these and related techniques.

# ABC of Prehospital Emergency Medicine

*John Wiley & Sons* "This brand new title in the ABC series provides a comprehensive overview of pre-hospital medicine, including transport, patient assessment, emergency care systems, and pre-hospital interventions. With pre-hospital care being the start of the "trauma chain", the treatment patients receive on-scene as well as en-route can be life-saving, and this new title is invaluable for all staff involved in emergency and pre-hospital medicine"--Provided by publisher.

## Digital Dominance

### The Power of Google, Amazon, Facebook, and Apple

*Oxford University Press* Are Google, Apple, Facebook, Amazon and Microsoft too powerful? Martin Moore and Damian Tambini draw together the world's leading researchers to examine the economic, political, and social impacts of these digital giants.

## Landscape in the Longue Durée

### A History and Theory of Pebbles in a Pebbled Heathland Landscape

*UCL Press* Pebbles are usually found only on the beach, in the liminal space between land and sea. But what happens when pebbles extend inland and create a ridge brushing against the sky? Landscape in the Longue Durée is a 4,000 year history of pebbles. It is based on the results of a four-year archaeological research project of the east Devon Pebblebed heathlands, a fascinating and geologically unique landscape in the UK whose bedrock is composed entirely of water-rounded pebbles. Christopher Tilley uses this landscape to argue that pebbles are like no other kind of stone - they occupy an especial place both in the prehistoric past and in our contemporary culture. It is for this reason that we must re-think continuity and change in a radically new way by considering embodied relations between people and things over the long term. Dividing the book into two parts, Tilley first explores the prehistoric

landscape from the Mesolithic to the end of the Iron Age, and follows with an analysis of the same landscape from the eighteenth into the twenty-first century. The major findings of the four-year study are revealed through this chronological journey: from archaeological discoveries, such as the excavation of three early Bronze Age cairns, to the documentation of all 829 surviving pebble structures, and beyond, to the impact of the landscape on local economies and its importance today as a military training camp. The results of the study will inform many disciplines including archaeology, cultural and art history, anthropology, conservation, and landscape studies.

## Structural Health Monitoring Damage Detection Systems for Aerospace

*Springer Nature* This open access book presents established methods of structural health monitoring (SHM) and discusses their technological merit in the current aerospace environment. While the aerospace industry aims for weight reduction to improve fuel efficiency, reduce environmental impact, and to decrease maintenance time and operating costs, aircraft structures are often designed and built heavier than required in order to accommodate unpredictable failure. A way to overcome this approach is the use of SHM systems to detect the presence of defects. This book covers all major contemporary aerospace-relevant SHM methods, from the basics of each method to the various defect types that SHM is required to detect to discussion of signal processing developments alongside considerations of aerospace safety requirements. It will be of interest to professionals in industry and academic researchers alike, as well as engineering students.

## Centrifugal Pumps: Design and Application

*Elsevier* Centrifugal Pumps: Design and Application, Second Edition focuses on the design of chemical pumps, composite materials, manufacturing techniques employed in nonmetallic pump applications, mechanical seals, and hydraulic design. The publication first offers information on the elements of pump design, specific speed and modeling laws, and impeller design. Discussions focus on shape of head capacity curve, pump speed, viscosity, specific gravity, correction for impeller trim, model law, and design suggestions. The book then takes a look at general pump design, volute design, and design of multi-stage casing. The manuscript examines double-suction pumps and side-suction design, net positive suction head, and vertical pumps. Topics include configurations, design features, pump vibration, effect of viscosity, suction piping, high speed pumps, and side suction and suction nozzle layout. The publication also ponders on high speed pumps, double-case pumps, hydraulic power recovery turbines, and shaft design and axial

thrust. The book is a valuable source of data for pump designers, students, and rotating equipment engineers.

## Introduction to Permanent Plug and Abandonment of Wells

*Springer Nature* This open access book offers a timely guide to challenges and current practices to permanently plug and abandon hydrocarbon wells. With a focus on offshore North Sea, it analyzes the process of plug and abandonment of hydrocarbon wells through the establishment of permanent well barriers. It provides the reader with extensive knowledge on the type of barriers, their functioning and verification. It then discusses plug and abandonment methodologies, analyzing different types of permanent plugging materials. Last, it describes some tests for verifying the integrity and functionality of installed permanent barriers. The book offers a comprehensive reference guide to well plugging and abandonment (P & A) and well integrity testing. The book also presents new technologies that have been proposed to be used in plugging and abandoning of wells, which might be game-changing technologies, but they are still in laboratory or testing level. Given its scope, it addresses students and researchers in both academia and industry. It also provides information for engineers who work in petroleum industry and should be familiarized with P & A of hydrocarbon wells to reduce the time of P & A by considering it during well planning and construction.

## Experimental Approaches of NMR Spectroscopy Methodology and Application to Life Science and Materials Science

*Springer* This book describes the advanced developments in methodology and applications of NMR spectroscopy to life science and materials science. Experts who are leaders in the development of new methods and applications of life and material sciences have contributed an exciting range of topics that cover recent advances in structural determination of biological and material molecules, dynamic aspects of biological and material molecules, and development of novel NMR techniques, including resolution and sensitivity enhancement. First, this book particularly emphasizes the experimental details for new researchers to use NMR spectroscopy and pick

up the potentials of NMR spectroscopy. Second, the book is designed for those who are involved in either developing the technique or expanding the NMR application fields by applying them to specific samples. Third, the Nuclear Magnetic Resonance Society of Japan has organized this book not only for NMR members of Japan but also for readers worldwide who are interested in using NMR spectroscopy extensively.

## Good Research Practice in Non-Clinical Pharmacology and Biomedicine

*Springer Nature* This open access book, published under a CC BY 4.0 license in the Pubmed indexed book series Handbook of Experimental Pharmacology, provides up-to-date information on best practice to improve experimental design and quality of research in non-clinical pharmacology and biomedicine.

## Diabetes in Pregnancy

## The Complete Guide to Management

*Springer* This book is a comprehensive and easily accessible reference for physicians caring for pregnant women with diabetes. Covering patients with type 1, type 2, and gestational diabetes, this handbook offers guidance on the different methods of treatment necessary for each population. Chapters cover the entire scope of patient care, including: diagnosis, patient education, dietary recommendations, medications, management during labor, potential fetal complications, and postpartum management. Obstetricians, gynecologists, primary care physicians, and residents will use this text to quickly answer any question they have on diabetes and pregnancy.

## Transforming the Future (Open Access)

# Anticipation in the 21st Century

*Routledge* People are using the future to search for better ways to achieve sustainability, inclusiveness, prosperity, well-being and peace. In addition, the way the future is understood and used is changing in almost all domains, from social science to daily life. This book presents the results of significant research undertaken by UNESCO with a number of partners to detect and define the theory and practice of anticipation around the world today. It uses the concept of 'Futures Literacy' as a tool to define the understanding of anticipatory systems and processes – also known as the Discipline of Anticipation. This innovative title explores: • new topics such as Futures Literacy and the Discipline of Anticipation; • the evidence collected from over 30 Futures Literacy Laboratories and presented in 14 full case studies; • the need and opportunity for significant innovation in human decision-making systems. This book will be of great interest to scholars, researchers, policy-makers and students, as well as activists working on sustainability issues and innovation, future studies and anticipation studies. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351047999>, has been made available under a Attribution-NonCommercial-NoDerivs 3.0 IGO (CC-BY-NC-ND 3.0 IGO) license.

# Optical Properties of Solids

*Academic Press* Optical Properties of Solids covers the important concepts of intrinsic optical properties and photoelectric emission. The book starts by providing an introduction to the fundamental optical spectra of solids. The text then discusses Maxwell's equations and the dielectric function; absorption and dispersion; and the theory of free-electron metals. The quantum mechanical theory of direct and indirect transitions between bands; the applications of dispersion relations; and the derivation of an expression for the dielectric function in the self-consistent field approximation are also encompassed. The book further tackles current-current correlations; the fluctuation-dissipation theorem; and the effect of surface plasmons on optical properties and photoemission. People involved in the study of the optical properties of solids will find the book invaluable.

# Severe Asthma

*European Respiratory Society* Severe asthma is a form of asthma that responds poorly to currently available medication, and its patients represent those with greatest unmet needs. In the last 10 years, substantial progress has been made in terms of

understanding some of the mechanisms that drive severe asthma; there have also been concomitant advances in the recognition of specific molecular phenotypes. This ERS Monograph covers all aspects of severe asthma – epidemiology, diagnosis, mechanisms, treatment and management – but has a particular focus on recent understanding of mechanistic heterogeneity based on an analytic approach using various ‘omics platforms applied to clinically well-defined asthma cohorts. How these advances have led to improved management targets is also emphasised. This book brings together the clinical and scientific expertise of those from around the world who are collaborating to solve the problem of severe asthma.

## Bioengineering and Biomedical Signal and Image Processing

### First International Conference, BIOMESIP 2021, Meloneras, Gran Canaria, Spain, July 19-21, 2021, Proceedings

*Springer Nature* This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

# Feedback Systems

## An Introduction for Scientists and Engineers, Second Edition

*Princeton University Press* The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

# How Modern Science Came Into the World

## Four Civilizations, One 17th-century Breakthrough

*Amsterdam University Press* Once upon a time 'The Scientific Revolution of the 17th century' was an innovative concept that inspired a stimulating narrative of how modern science came into the world. Half a century later, what we now know as 'the master narrative'

serves rather as a strait-jacket - so often events and contexts just fail to fit in. No attempt has been made so far to replace the master narrative. H. Floris Cohen now comes up with precisely such a replacement. Key to his path-breaking analysis-cum-narrative is a vision of the Scientific Revolution as made up of six distinct yet narrowly interconnected, revolutionary transformations, each of some twenty-five to thirty years' duration. This vision enables him to explain how modern science could come about in Europe rather than in Greece, China, or the Islamic world. It also enables him to explain how half-way into the 17th century a vast crisis of legitimacy could arise and, in the end, be overcome.

## Clinical Pharmacy and Therapeutics

A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed

## Cavitation and Bubble Dynamics

Cambridge University Press Cavitation and Bubble Dynamics deals with fundamental physical processes of bubble dynamics and cavitation for graduate students and researchers.

## Materials Selection in Mechanical Design

Pergamon New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

# The Wind Power Book

*Cheshire Books* A detailed look at the technology of wind generated power includes a comparison of various system designs, advice on assembling a wind power system, and an analysis of wind power availability in each state

# Government Reports Announcements & Index

# Lymphedema

# A Concise Compendium of Theory and Practice

*Springer* The second edition of this book serves as a central source of theoretical and practical knowledge to optimize the evaluation and treatment of patients with lymphedema. The book covers all aspects of the disease from anatomical and histological features to diagnosis as well as physical/medical and surgical management of the disease. Updated from the first edition to reflect the substantial progress in diagnostics, medical care and surgical intervention for this patient population, this volume has been reorganized to meet today's practice requirements. It addresses the challenges faced by clinicians in the management of chronic lymphedema enabling them to meet the medical needs of this large patient community. Edited by world leaders in Vascular Medicine and Surgery, this comprehensive volume provides clear, concise background and recommendations in an easy-to-use format. It is a valuable reference tool for clinical practitioners (physicians/nurse practitioners/technicians) who wish to deliver state-of-the-art health care to their patients with lymphatic and venous disorders.

# Sonic Warfare

# Sound, Affect, and the Ecology of Fear

*MIT Press* An exploration of the production, transmission, and mutation of affective tonality—when sound helps produce a bad vibe. Sound can be deployed to produce discomfort, express a threat, or create an ambience of fear or dread—to produce a bad vibe. Sonic weapons of this sort include the “psychoacoustic correction” aimed at Panama strongman Manuel Noriega by the U.S. Army and at the Branch Davidians in Waco by the FBI, sonic booms (or “sound bombs”) over the Gaza Strip, and high-frequency rat repellants used against teenagers in malls. At the same time, artists and musicians generate intense frequencies in the search for new aesthetic experiences and new ways of mobilizing bodies in rhythm. In *Sonic Warfare*, Steve Goodman explores these uses of acoustic force and how they affect populations. Traversing philosophy, science, fiction, aesthetics, and popular culture, he maps a (dis)continuum of vibrational force, encompassing police and military research into acoustic means of crowd control, the corporate deployment of sonic branding, and the intense sonic encounters of sound art and music culture. Goodman concludes with speculations on the not yet heard—the concept of unsound, which relates to both the peripheries of auditory perception and the unactualized nexus of rhythms and frequencies within audible bandwidths.

## Pumping Station Design

*Pumping Station Design, Second Edition* shows how to apply the fundamentals of various disciplines and subjects to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes. In a field where inappropriate design can be extremely costly for any of the foregoing reasons, there is simply no excuse for not taking expert advice from this book. The content of this second edition has been thoroughly reviewed and approved by many qualified experts. The depth of experience and expertise of each contributor makes the second edition of *Pumping Station Design* an essential addition to the bookshelves of anyone in the field.

## Alkoxysilanes and the Consolidation of Stone

*Getty Publications* Stone is one of the oldest building materials, and its conservation ranks as one of the most challenging in the field. The use of alkoxysilanes in the conservation of stone can be traced as far back as 1861, when A. W. von Hoffman suggested their use for the deteriorating limestone on the Houses of Parliament in London. Alkoxysilane-based formulations have since become the

material of choice for the consolidation of stone outdoors. This volume, the first to cover comprehensively alkoxysilanes in stone consolidation, synthesizes the subject's vast and extensive literature, which ranges from production of alkoxysilanes in the nineteenth century to the extensive contributions from sol-gel science in the 1980s and 90s. Included are a historical overview, an annotated bibliography, and discussions of the following topics: the chemistry and physics of alkoxysilanes and their gels; the influence of stone type; commercial and noncommercial formulations; practice; lab and field evaluation of service life; and recent developments. This book is designed for conservators, scientists, and preservation architects in the field of stone conservation and will also serve as an indispensable introduction to the subject for students of art conservation and historic preservation.

## Big Data in Practice

# How 45 Successful Companies Used Big Data Analytics to Deliver Extraordinary Results

*John Wiley & Sons* The best-selling author of *Big Data* is back, this time with a unique and in-depth insight into how specific companies use big data. Big data is on the tip of everyone's tongue. Everyone understands its power and importance, but many fail to grasp the actionable steps and resources required to utilise it effectively. This book fills the knowledge gap by showing how major companies are using big data every day, from an up-close, on-the-ground perspective. From technology, media and retail, to sport teams, government agencies and financial institutions, learn the actual strategies and processes being used to learn about customers, improve manufacturing, spur innovation, improve safety and so much more. Organised for easy dip-in navigation, each chapter follows the same structure to give you the information you need quickly. For each company profiled, learn what data was used, what problem it solved and the processes put it place to make it practical, as well as the technical details, challenges and lessons learned from each unique scenario. Learn how predictive analytics helps Amazon, Target, John Deere and Apple understand their customers Discover how big data is behind the success of Walmart, LinkedIn, Microsoft and more Learn how big data is changing medicine, law enforcement, hospitality, fashion, science and banking Develop your own big data strategy by accessing additional reading materials at the end of each chapter

# Investigating Spoken English

## A Practical Guide to Phonetics and Phonology Using Praat

*Springer Nature* Combining coverage of the key concepts and tools within phonetics and phonology with a systematic introduction to Praat, this textbook provides a lively and engaging 'way in' to the discipline. The author first covers the fundamentals of the articulatory and acoustic aspects of speech and introduces Praat as the main tool for examining and visualising speech. Next, the unit of analysis is gradually expanded (from syllables to words to turns and dialogues) and excerpts of real dialogues exemplify the core concepts for discovering how speech works. The final part of the book brings all the concepts and notions together with commentaries to the transcription of several short excerpts of dialogues. This book will be essential reading for students on undergraduate courses in phonetics and phonology.

# Wind Energy Engineering

## A Handbook for Onshore and Offshore Wind Turbines

*Academic Press* Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for

engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

## Behavior Management in Dentistry for Children

*John Wiley & Sons* Guiding patient behavior is as important as ever for the practicing dentist, and the behavior of pediatric patients is perhaps the most challenging to manage. Drs. Wright and Kupietzky here update Dr. Wright's classic work on managing pediatric dental patients. *Behavior Management in Dentistry for Children, 2nd Edition*, has been entirely rewritten and includes the latest and most effective management strategies from an international team of experts in the field. The book addresses the influence of family and parenting styles on children's behavior and the factors that determine how children behave in the dental office. Pharmacological and non-pharmacological management techniques are described in depth, as are techniques for dealing with special needs patients. Clinical scenarios are described throughout the book, with practical application of the taught principles. The final part of the book covers the dental environment—training office personnel to manage children's behavior, practical considerations for behavior guidance, and the effects of the physical dental office environment. *Behavior Management in Dentistry for Children, 2nd Edition*, is ideal for pediatric residents, dental students, and practicing dentists who see children on a regular basis.

## Nuclear Energy

### An Introduction to the Concepts, Systems, and Applications of Nuclear Processes

*Elsevier* This expanded, revised, and updated fourth edition of *Nuclear Energy* maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a

discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields.

## Textbook of Hemophilia

*John Wiley & Sons* The only up-to-date definitive reference source on hemophilia This book is an invaluable resource that provides an overview of all aspects of the care of patients with haemophilia. Covering how to assess both bleeding children and adults, Haemophilia A and B, molecular basis of the disease, the role of factors in coagulation, epidemiology, pharmacokinetics, and treatment of inhibitors. There will also be a section on musculoskeletal aspects of haemophilia as well as newer developments such as gene therapy and rare bleeding disorders. Textbook of Hemophilia is ideal for: Trainees and residents in hematology Hematologists in practice Specialists working in thrombosis and hemostasis as well as transfusion medicine Why Buy This Book? The only up-to-date definitive reference source on hemophilia Essential for all those managing hemophilia patients Detailed guidance on assessment, diagnosis, management and treatment Advice for everyday clinical questions Edited by three of the world's leading experts on hemophilia