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The Science Focus Second Edition is the complete science package for the teaching of the New South Wales Stage 4 and 5 Science Syllabus. The Science Focus Second Edition package retains the identified strengths of the highly successful First Edition and includes a number of new and exciting features, improvements and components.

A collection of four erotic short stories about Matt, the experience captain, and Jake, a bratty superstar rookie on a professional hockey team. Matt loves to tease Jake about his age, push his buttons, and put him in his place, but deeply cares about his rookie. After their first sexual experience one night on a road trip, the two athletes have become more bold about how and where they fuck, and continue to create a stronger bond.

Brennan Clayton lived a life of privilege and comfort, until experimenting with drugs in college led to him quitting school to live the life of an addict. His days are spent doing odd jobs for cash to pay for his habit. One night, he overdoses and nearly dies. Doctor Lucas Martel works nightshift in the emergency room at Eureka Hospital. He's reclusive and brilliant at his job, and he's all too aware that not everything in Eureka is as it seems. He's also a vampire, one who chooses to blend in with humans rather than feed on them. Something strange is happening to the homeless and addicts on the streets of Eureka; many have gone missing or ended up dead, and others have overdosed on drugs so strong, no human cure can counteract them. Not normally concerned with human tragedies, the vampires can't stand back and let this play out, or they risk exposing their world to the humans. Brennan must face his demons, and Lucas will discover many things about himself, and what he believes to be true: a seedy

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underground of rogue vampires and drugs that must be stopped, at any cost. *Warning: contains references to drug use and abuse.

A comprehensive presentation of the field of public finance, this text adopts a modern, theoretical and empirical approach to the subject.

Owing to the rapidly changing nature of PCs, this second edition has been revised and extended in order to continue its role as an essential guide for use with modern PCs. PC Operation and Repair provides a concise analysis of the operation of personal computer systems, their upgrading and repair. It guides the reader logically from the computer numbering system and basic digital principles to the working, application and testing of PCs. Current techniques in computer architecture and design are covered, including pentium based computers. The book also provides a thorough explanation of the installation and configuration of complete PC systems including modems, and CD-ROM and DVD devices. For this edition, material has been added on networking, operating systems, peripheral devices and logic devices. ISDN and ADSL is also covered in more detail. Among the material provided is information on testing and fault finding on PCs,

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Ultrasound in Medicine is a broad-ranging study of medical ultrasound, including ultrasound propagation, interaction with tissue, and innovations in the application of ultrasound in medicine. The book focuses specifically on the science and technology-the underlying physics and engineering. It examines the most closely related aspects of these basic sciences in clinical application and reviews the success of technological innovations in improving medical diagnosis and treatment. The book bridges the gap between tutorial texts widely available for ultrasound and medical training and theoretical works on acoustics.

In the past, a number of Satellite Conferences have been held in connection with the International Conference on Physics of Semiconductors, covering selected fields of interest. In 1986, when the main conference was held in Stockholm, Sweden, new phenomena had to be discussed: super lattices, hot 'electron phenomena and new device structures for high-speed applications. The aim was to select topics which would be of interest to physicists as well as to electronics

engineers. Therefore a Satellite Conference on High-Speed Electronics, Basic Physical Phenomena and Device Principles, was arranged at Saltjobaden, a coastal resort near Stockholm. An organizing committee was established after the first suggestion made by Professor Grimmeiss from the University of Lund, Sweden, and some preliminary discussions on the Conference format. A Program Committee was established to be responsible for the further selection of the invited talks, the regular papers and poster presentation. The aim was to have a broad spectrum of contributions to attract physicists as well as device oriented engineers and to stimulate discussions among the participants. These Proceedings contain all oral and poster presentations, with emphasis on the invited talks, which give a competent overview of the field. The fast publication by Springer-Verlag has permitted the presentation of an up-to-date survey of the principles of high-speed electronics. Incorporation in the Springer Series in Electronics and Photonics will enable the book to be distributed worldwide and to reach all interested scientists.

Microbubbles and nanobubbles have several characteristics that are comparable with millimeter- and centimeter-sized bubbles. These characteristics are their small size, which results in large surface area and high bioactivity, low rising velocity, decreased friction drag, high internal pressure, large gas dissolution

capacity, negatively charged surface, and ability to be crushed and form free radicals. Microbubbles and nanobubbles have found applications in a variety of fields such as engineering, agriculture, environment, food, and medicine. Microbubbles have been successfully used in aquacultures of oysters in Hiroshima, scallops in Hokkaido, and pearls in Mie Prefecture, Japan. This field has shown a strong potential for growth. This book comprehensively discusses microbubbles and nanobubbles and their application in aquaculture, environment, engineering, medicine, stock raising, agriculture, and marine industry. It presents their potential as a new technology that can be utilized globally.

A cofactor is a component part of many enzymes and functions by uniting with another molecule in order to become active. The use of cofactors to supplement the native amino acids of a protein is essential to maintain the chemical capabilities necessary for organisms to survive. This volume focuses on the significant advances of the past decade in identifying and describing new cofactors--either small molecules or those derived posttranslationally.

This book is intended for the reader who wishes to gain a solid understanding of Phase Locked Loop architectures and their applications. It provides a unique balance between both theoretical perspectives and practical design trade-offs. Engineers faced with real world design problems will find this book to be a valuable reference providing example

implementations, the underlying equations that describe synthesizer behavior, and measured results that will improve confidence that the equations are a reliable predictor of system behavior. New material in the Fourth Edition includes partially integrated loop filter implementations, voltage controlled oscillators, and modulation using the PLL. This volume presents the results of a multi-year research programme funded by the Deutsche Forschungsgemeinschaft (German Research Council), which explains how organic solar cells work. In this new promising photovoltaic technology, carbon-based materials are deposited by low-cost methods onto flexible substrates, thus allowing devices which open completely new applications like transparent coatings for building, solar cells integrated into clothing or packages, and many more. The investigation of organic solar cells is an interdisciplinary topic, covering physics, chemistry and engineering. The different chapters address topics ranging from the synthesis of new organic materials, to the characterization of the elementary processes such as exciton transport and separation, and the principles of highly efficient device design. /div A substantial update of his earlier book "Modern Electronic Test and Measuring Instruments" (IEE, 1996), the author provides a state-of-the art review of modern families of digital instruments. For each family he covers internal design, use and applications, highlighting their advantages and limitations from a practical application viewpoint. New enabling semiconductor technology including data converters, signal processors and modern sensors offers new capabilities to instrument designers and the

book treats new digital instrument families such as DSOs, Arbitrary Function Generators, FFT analysers and many other common systems used by the test engineers, designers and research scientists.

A unique, state-of-the-art guide to wireless integrated circuit design. With wireless technology rapidly exploding, there is a growing need for circuit design information specific to wireless applications. Presenting a single-source guidebook to this dynamic area, industry expert Ulrich Rohde and writer David Newkirk provide researchers and engineers with a complete set of modeling, design, and implementation tools for tackling even the newest IC technologies. They emphasize practical design solutions for high-performance devices and circuitry, incorporating ample examples of novel and clever circuits from high-profile companies. They also provide excellent appendices containing working models and CAD-based applications. RF/Microwave Circuit Design for Wireless Applications offers:

- * Introduction to wireless systems and modulation types
- * A systematic approach that differentiates between designing for battery-operated devices and base-station design
- * A comprehensive introduction to semiconductor technologies, from bipolar transistors to CMOS to GaAs MESFETs
- * Clear guidelines for obtaining the best performance in discrete and integrated amplifier design
- * Detailed analysis of available mixer circuits applicable to the wireless frequency range
- * In-depth explanations of oscillator circuits, including microwave oscillators and ceramic-resonator-based oscillators
- * A thorough evaluation of all components of wireless synthesizers

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An authoritative, encyclopedic reference source for researchers and engineers interested in R&D into optical fibers.

The only textbook bearing the imprimatur of the American College of Surgeons, ACS Surgery 7 provides a comprehensive reference work across all stages of surgical training and practice, from resident to experienced practitioner. ACSS7 covers thoroughly medical knowledge and patient care, as well as other competencies- professionalism, interpersonal communication, systems-based practice, and practice-based learning and improvement. The illustrations, diagrams, tables, and algorithms enhance and clarify concepts outlined in the text. In addition, monthly updating online means the work is continually renewed and current on an ongoing basis.

Provides an overall introduction to the welding process, illustrating most of the common equipment and work techniques for both the home and shop welding. Day Bang is a 201-page book that teaches you how to pick up women during the day, primarily in a coffee shop, clothing store, bookstore, grocery store, subway, or on the street. It contains 51 openers, 23 long dialogue examples with commentary, and dozens of additional lines that teach by example. Day Bang includes... -The optimal day game mindset that leads to the most amount of success-An easy mental trick to prevent your brain from going into a flight-or-fight

response when it's time to approach a woman you're attracted to-A detailed breakdown of how to use the "elderly opener," an easy style of approach that reliably starts conversations with women-2 ways to tell if a girl will be receptive to your approach-How to avoid the dreaded "interview vibe"-10 common mistakes guys make that hurt their chances of getting a number Day Bang shares tons of tips and real examples on having successful conversations. It teaches you... -How to use my bait system to get the girl engaged and interested in you-How to segue out of the initial opening topic into a more personal chat where you'll get to know the girl on a deeper level-How to take the interesting things you've done (your accomplishments, hobbies, and experiences) and morph them into bait hooks that gets the girl intrigued enough to want to go out with you-My "Galnuc" method to seamlessly get a girl's number-An easy hack at the end of your interactions that will reduce the chance of a flake and prime the girl for going out with you-Ways to open up a conversation on a girl who isn't giving you much to work with Day Bang goes into painstaking detail on how to approach women in a variety of common environments... -How to open a girl in coffee shops when she has a book, laptop, mp3 player, cell phone, research paper, crossword or Sudoku puzzle, or nothing at all-Two methods for approaching a girl on the street, depending on if she's moving or not, with a diagram to explain all the approach

variations-How to approach in a retail store or mall environment, with openers to use on customers or sales clerks-How to approach in bookstores, with specific tips on how to customize your approaches in the cafe, magazine section, or general book aisles-How to meet women in public transportation, on both the bus and subway-How to meet women in grocery stores-How to approach girls in secondary venues like a beach, casino, concert, gym, hair salon, handicraft fair, museum, art show, park, public square, or wine festival Dozens of additional topics are logically organized into 12 chapters... -Preparation. How to reduce your approach anxiety-Opening. How to deliver your opener in a way that doesn't scare women away-Rambling. How to have conversations that make women interested in you-Closing. How to get a number in a way that reduces the chance she'll flake-The Coffee Shop. How to pick up in coffee shops and cafes-The Street. How to pick up outdoors-The Clothing Shop. How to pick up in retail shops, malls, and big box stores-The Bookstore. How to pick up in bookstores-Public Transportation. How to pick up in the bus, subway, or long distance transportation-The Grocery Store. How to pick up in grocery stores-Other Venues. How to pick up just about anywhere else women can be found-Putting It All Together. How to maximize your day game potential The lessons taught in this 75,000 word, no-fluff textbook will help you meet women during the day. If

you need tips on what to do after getting her number, consult my other book *Bang*, which contains an A-to-Z banging strategy. *Day Bang* focuses exclusively on daytime approaching.

In this age of combinatorial chemistry and high-throughput technologies, bioactive compounds called hits are discovered by the thousands. However, the road that leads from hits to lead compounds and then to pharmacokinetically optimized clinical and drug candidates is very long indeed. As a result, the screening, design, and optimization of pharmacokinetic properties has become the bottleneck and a major challenge in drug research. To shorten the time-consuming development and high rate of attrition of active compounds ultimately doomed by hidden pharmacokinetic defects, drug researchers are coming to incorporate structure-permeation, structure-distribution, structure-metabolism, and structure-toxicity relations into drug-design strategies. To this end, powerful biological, physicochemical, and computational approaches are being developed whose objectives are to increase the clinical relevance of drug design, and to eliminate as soon as possible compounds with unfavorable physicochemical properties and pharmacokinetic profiles. Toxicological issues are also of utmost importance in this paradigm. There was, hence, an urgent need for a book covering this field in an authoritative, didactic, comprehensive, factual, and

conceptual manner. In this work of unique breadth and depth, international authorities and practicing experts from academia and industry present the most modern biological, physicochemical, and computational strategies to optimize gastrointestinal absorption, protein binding and distribution, brain permeation, and metabolic profile. The biological strategies emphasized in the book include cell cultures and high-throughput screens. The physicochemical strategies focus on the determination and interpretation of solubility, lipophilicity, and related molecular properties as factors and predictors of pharmacokinetic behavior. Particular attention is paid to the lipophilicity profiles of ionized compounds, to lipophilicity measurements in anisotropic media (liposomes/water, IAM columns), and to permeability across artificial membranes. Computational strategies comprise virtual screening, molecular modelling, lipophilicity, and H-bonding fields and their importance for structure-disposition relations. This book is both about theoretical and technological breakthroughs. Thus, molecular properties are contemplated from a dual perspective, namely a) their interpretation in biological and/or physicochemical terms, and b) their value in screening, lead optimization, and drug-candidate selection. In addition to its 33 chapters, the book includes a CD-ROM containing the invited lectures, oral communications and posters (in full version) presented at the Second LogP Symposium,

'Lipophilicity in Drug Disposition—Practical and Computational Approaches to Molecular Properties Related to Drug Permeation, Disposition and Metabolism', held at the University of Lausanne in March 2000.

This timely book addresses the increasing need for collaboration, innovation and solution-focussed skills by looking at examples of cutting-edge pedagogy that can inform future directions. Integrating STEM in Higher Education shows how applying digital innovations that can be generated through the implementation of deliberately designed STEM education can change the world for the better.

References to over 45 higher education institutions from around the world are included, where integrated approaches are already occurring. A wide range of teaching strategies and assessment methods are discussed, promoting a transformative method in which students can generate new knowledge within coursework and simultaneously develop skills and attributes for their future careers, lives and the world's needs. This book is essential reading for STEM educators, administrators and academic leaders, as well as learning designers in higher education.

An accessible, clear, concise, and contemporary course in geotechnical engineering, this key text: strikes a balance between theory and practical applications for an introductory course in soil mechanics keeps mechanics to a minimum for the students to appreciate the background,

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assumptions and limitations of the theories discusses implications of the key ideas to provide students with an understanding of the context for their application gives a modern explanation of soil behaviour is presented particularly in soil settlement and soil strength offers substantial on-line resources to support teaching and learning

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