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Richard Wolfson's *Essential University Physics, Second Edition* is a concise and progressive calculus-based physics textbook that offers clear writing, great problems, and relevant real-life applications. This text is a compelling and affordable alternative for professors who want to focus on the fundamentals and bring physics to life for their students. *Essential University Physics* focuses on the fundamentals of physics, teaches sound problem-solving skills, emphasizes conceptual understanding, and makes connections to the real world. The presentation is concise without sacrificing a solid introduction to calculus-based physics. New pedagogical elements have been introduced that incorporate proven results from physics education research. Features such as annotated figures and step-by-step problem-solving strategies help students master concepts and solve problems with confidence. The Second Edition features dramatically revised and updated end-of-chapter problem sets, significant content updates, new Conceptual Examples, and additional Applications, all of which serve to foster student understanding and interest. *Essential University Physics* is offered as two paperback volumes, available shrink-wrapped together, or for sale individually. This package contains: *Essential University Physics: Volume 2, Second Edition* (which includes Chapters 20-39)

In this third edition of *Vehicle Accident Analysis & Reconstruction Methods*, Raymond M. Brach and R. Matthew Brach have expanded and updated their essential work for professionals in the field of accident reconstruction. Most accidents can be reconstructed effectively using of calculations and investigative and experimental data: the authors present the latest scientific, engineering, and mathematical reconstruction methods, providing a firm scientific foundation for practitioners. Accidents that cannot be reconstructed using the methods in this book are rare. In recent decades, the field of crash reconstruction has been transformed through the use of technology. The advent of event data records (EDRs) on vehicles signaled the era of modern crash reconstruction, which utilizes the same physical evidence that was previously available as well as electronic data that are measured/captured before, during, and after the collision. There is increased demand for more professional and accurate reconstruction as more crash data is available from vehicle sensors. The third edition of this essential work includes a new chapter on the use of EDRs as well as examples using EDR data in accident reconstruction. Early chapters feature foundational material that is necessary for the understanding of vehicle collisions and vehicle motion; later chapters present applications of the methods and include example reconstructions. As a result, *Vehicle Accident Analysis & Reconstruction Methods* remains the definitive resource in accident reconstruction.

Responding to the need for a single reference source on the design and applications of composites, *Composite Materials: Design and Applications, Second Edition* provides an authoritative examination of the composite materials used in current industrial applications and delivers much needed practical guidance to those working in this rapidly d

This book is a tribute to Professor Pedro Gil, who created the Department of Statistics, OR and TM at the University of Oviedo, and a former President of the Spanish Society of Statistics and OR (SEIO). In more than eighty original contributions, it illustrates the extent to which Mathematics can help manage uncertainty, a factor that is inherent to real life. Today it goes without saying that, in order to model experiments and systems and to analyze related outcomes and data, it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty. Mathematics is crucial in this endeavor, as this book demonstrates. As Professor Pedro Gil highlighted twenty years ago, there are several well-known mathematical branches for this purpose, including Mathematics of chance (Probability and Statistics), Mathematics of communication (Information Theory), and Mathematics of imprecision (Fuzzy Sets Theory and others). These branches often intertwine, since different sources of uncertainty can coexist, and they are not exhaustive. While most of the papers presented here address the three aforementioned fields, some hail from other Mathematical disciplines such as Operations Research; others, in turn, put the spotlight on real-world studies and applications. The intended audience of this book is mainly statisticians, mathematicians and computer scientists, but practitioners in these areas will certainly also find the book a very interesting read.

This book focuses on recent advances in our understanding of the signal transduction pathway of ethylene, its interaction with other hormones and its roles in biological processes. It discusses at which point plants could have acquired ethylene signaling from an

evolutionary perspective. Ethylene was the first gaseous hormone to be identified and triggers various responses in higher plants. Our grasp of ethylene signaling has rapidly expanded over the past two decades, due in part to the isolation of the components involved in the signal transduction pathway. The book offers a helpful guide for plant scientists and graduate students in related areas.

This book summarizes science and technology of a new generation of high-energy and insensitive explosives. The objective is to provide professionals with comprehensive information on the synthesis and the physicochemical and detonation properties of the explosives. Potential technologies applicable for treatment of contaminated wastestreams from manufacturing facilities and environmental matrices are also included. This book provides the reader an insight into the depth and breadth of theoretical and empirical models and experimental techniques currently being developed in the field of energetic materials. It presents the latest research by DoD engineers and scientists, and some of DoD's academic and industrial researcher partners. The topics explored and the simulations developed or modified for the purposes of energetics may find application in other closely related fields, such as the pharmaceutical industry. One of the key features of the book is the treatment of wastewaters generated during manufacturing of these energetic materials.

A large international conference in Intelligent Automation and Computer Engineering was held in Hong Kong, March 18-20, 2009, under the auspices of the International MultiConference of Engineers and Computer Scientists (IMECS 2009). The IMECS is organized by the International Association of Engineers (IAENG). Intelligent Automation and Computer Engineering contains 37 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include artificial intelligence, decision supporting systems, automated planning, automation systems, control engineering, systems identification, modelling and simulation, communication systems, signal processing, and industrial applications. Intelligent Automation and Computer Engineering offers the state of the art of tremendous advances in intelligent automation and computer engineering and also serves as an excellent reference text for researchers and graduate students, working on intelligent automation and computer engineering.

This book provides a wealth of detailed information that collectors, investors, and restorers of imported cars will not find in any other book. This massive volume spans the marques of imported vehicles. The list includes such familiar names as Alfa Romeo, Aston Martin, Bentley, Citroen, Jaguar, Lamborghini, Porsche, Rolls-Royce, Saab, and Volkswagen. Also in these pages, you'll find details on such lesser-known yet no less intriguing marques as Abarth, DAF, Frazer Nash, Humber, Iso, Nardi, Panhard, Peerless, Sabra and Skoda. The book also highlights model changes and corporate histories and provides value information on the most popular models of imported cars.

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

I have physical scars from past surgeries, however, I have emotional scars as well. They were buried deep inside (hidden). It wasn't until my mother died was I able to "catch my breath" and to make sense of or process the emotional pain I had endured due to her prescription drug addiction, resulting in my own addictions.

Incorporation of particular components with specialized properties allows one to tailor the end product's properties. For instance, the sensitivity, burning behavior, thermal or mechanical properties or stability of energetic materials can be affected and even controllably varied through incorporation of such ingredients. This book examines particle technologies as applied to energetic materials such as propellants and explosives, thus filling a void in the literature on this subject. Following an introduction covering general features of energetic materials, the first section of this book describes methods of manufacturing particulate energetic materials, including size reduction, crystallization, atomization, particle formation using supercritical fluids and microencapsulation, agglomeration phenomena, special considerations in mixing explosive particles and the production of nanoparticles. The second section discusses the characterization of particulate materials. Techniques and methods such as particle size analysis, morphology elucidation and the determination of chemical and thermal properties are presented. The wettability of powders and rheological be-

havior of suspensions and solids are also considered. Furthermore, methods of determining the performance of particular energetic materials are described. Each chapter deals with fundamentals and application possibilities of the various methods presented, with particular emphasis on issues applicable to particulate energetic materials. The book is thus equally relevant for chemists, physicists, material scientists, chemical and mechanical engineers and anyone interested or engaged in particle processing and characterization technologies.

Provides detailed instructions and advice for troubleshooting and customizing the Windows computer system and its applications

The author has attempted to present a book that provides a non-technical introduction into the area of non-parametric density and regression function estimation. The application of these methods is discussed in terms of the S computing environment. Smoothing in high dimensions faces the problem of data sparseness. A principal feature of smoothing, the averaging of data points in a prescribed neighborhood, is not really practicable in dimensions greater than three if we have just one hundred data points. Additive models provide a way out of this dilemma; but, for their interactivity and recursiveness, they require highly effective algorithms. For this purpose, the method of WARPing (Weighted Averaging using Rounded Points) is described in great detail.

The primary purpose of the Manual of Classification of Motor Vehicle Traffic Accidents is to promote uniformity and comparability of motor vehicle traffic accident statistics now being developed in Federal, state and local jurisdictions. This manual is divided into two sections, one containing definitions and one containing classification instructions.

This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. For courses in Multivariate Statistics, Marketing Research, Intermediate Business Statistics, Statistics in Education, and graduate-level courses in Experimental Design and Statistics. Appropriate for experimental scientists in a variety of disciplines, this market-leading text offers a readable introduction to the statistical analysis of multivariate observations. Its primary goal is to impart the knowledge necessary to make proper interpretations and select appropriate techniques for analyzing multivariate data. Ideal for a junior/senior or graduate level course that explores the statistical methods for describing and analyzing multivariate data, the text assumes two or more statistics courses as a prerequisite.

Revised edition of the authors' *Business statistics*, [2015]

White Van Man' is a larger-than-life presence on Britain's road, but he's no fool. Given the choice, he inevitably opts for a Ford Transit...and indeed he has been doing so, more than for any other van, for the past 45-plus years. Why? Because the Transit better suits the needs of working drivers than anything else around.

CD-ROM contains full text for all the procedures available in the manual. Files are provided both as fully formatted Word 6.0 (.doc) documents and as text-only documents (.txt).

The authors have cleverly used exercises and their solutions to explore the concepts of multivariate data analysis. Broken down into three sections, this book has been structured to allow students in economics and finance to work their way through a well formulated exploration of this core topic. The first part of this book is devoted to graphical techniques. The second deals with multivariate random variables and presents the derivation of estimators and tests for various practical situations. The final section contains a wide variety of exercises in applied multivariate data analysis.

'Cosmic Motors' shows the design process of unique futuristic vehicles, from the first initial sketches to the stunningly detailed 3-D models and final photorealistic full spread renderings. Spaceships, pods, racing cars, giant trains, warships and balloons are shown from concept to completion.

This book constitutes the refereed proceedings of the 11th International Conference on Computer Vision Systems, ICVS 2017, held in Shenzhen, China, in July 2017. The 61 papers presented were carefully reviewed and selected from 92 submissions. The papers are organized in topical sections on visual control, visual navigation, visual inspection, image processing, human robot interaction, stereo system, image retrieval, visual detection, visual recognition, system design, and 3D vision / fusion.

NEW YORK TIMES BESTSELLER • "A fascinating look at how consumers perceive logos, ads, commercials, brands, and products."—Time How much do we know about why we buy? What truly influences our decisions in today's message-cluttered world? In *Buyology*, Martin Lindstrom presents the astonishing findings from his groundbreaking three-year, seven-million-dollar neuro-marketing study—a cutting-edge experiment that peered inside

the brains of 2,000 volunteers from all around the world as they encountered various ads, logos, commercials, brands, and products. His startling results shatter much of what we have long believed about what captures our interest—and drives us to buy. Among the questions he explores: • Does sex actually sell? • Does subliminal advertising still surround us? • Can “cool” brands trigger our mating instincts? • Can our other senses—smell, touch, and sound—be aroused when we see a product? Buyology is a fascinating and shocking journey into the mind of today's consumer that will captivate anyone who's been seduced—or turned off—by marketers' relentless attempts to win our loyalty, our money, and our minds.

This book addresses different aspects of green biocomposite manufacture from natural fibres and bioplastics, including the manufacturing procedures and the physical, mechanical, thermal and electrical properties of green biocomposites. Featuring illustrations and tables that maximize reader insights into the current research on biocomposites, it emphasises the role of green technolo-

gy in the manufacture of biocomposites and analysis of properties of biocomposites for different applications. It is a valuable resource for researchers and scientists in industry wanting to understand the need for biocomposites in the development of green, biodegradable and sustainable products for different applications. After her nightmarish recovery from a serious car accident, Faye gets horrible news from her doctor, and it hits her hard like a rock: she can't bear children. In extreme shock, she breaks off her engagement, leaves her job and confines herself in her family home. One day, she meets her brother's best friend, and her soul makes a first step to healing.

Meet Donald Lam, he's a private detective or at least, he is by the end of the book. A more unlikely looking P.I. you'll never meet, as he is constantly reminded. At 5 and a half feet tall and 127 pounds, he's simply not intimidating at all. But what he lacks in brawn he more than makes up for in brains, a fact that is not lost on his new employer, Bertha Cool of the B.L. Cool Agency, was sharp enough to spot. Now, Bertha Cool is also not the most likely head figure of a detective agency, although physically impressive

she most certainly is. She's sixty-something with grey hair, sparkling eyes and a grandmotherly expression. She weighs in at over 300 pounds and is described as having the majesty of a snow capped mountain and the assurance of a steamroller. When Lam gets the job he is put to work immediately because if there's one thing Bertha Cool believes in it's getting her money's worth. His first job is to serve divorce papers on Morgan Birks, husband of Sandra Birks who claims he has been abusing her. It seems a straightforward enough job, and it is. But it's only after the papers have been served that the real fireworks begin. It's in the moments of confusion that quickly follow a seemingly successful job that Lam's genius is uncovered as he works his way through deduction after deduction and then comes up with a brilliant solution that is as impressive in its cunning as it is in its simplicity. As the first book of a series of 29, it provides a terrific start combining an interesting duo with a clever mystery. With the promise of many more such stories to follow, it's bound to leave you begging for more.