

## Dr Waheed A Al Masry Ficheme Ceng Csci

Water is a vital element for life. Each recognised form of life on earth, from the smallest microbes to the largest mammals, rely on water. But the amount of fresh water on the earth is limited. Due to industrialisation, urbanisation, and rapid growth of population; even this small amount of fresh water is compromised. Various types of inorganic (toxic and heavy metals) and organic pollutants (dyes, pesticides and pharmacological) are continuously polluting the ecosystem. The development of new efficient technologies are always in demand for the removal of these pollutants. There are several chemical and physical methods available, but among those methods, ion exchange, adsorption and solvent extraction are known to be the most simple and cost effective methods for the removal of these pollutants. This comprehensive book covers 14 review chapters on today's rapidly growing areas of ion exchange, adsorption and solvent extraction and provides an important resource for scientists, and researchers in the fields of Environmental Science, Chemistry, Nanotechnology, Material Science and Engineering.

This book argues that political Islam (represented by its moderate and militant forms) has failed to govern effectively or successfully due to its inability to reconcile its discursive understanding of Islam, centered on literal justice, with the dominant neo-liberal value of freedom. Consequently, Islamists' polities have largely been abject, often tragic failures in providing a viable collective life and sound governance. This argument is developed theoretically and supported through a set of case studies represented by the Muslim Brotherhood in Egypt (under President Muhammad Morsi's tenure), Hassan Turabi's National Islamic Front in

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Sudan and The Islamic State in Iraq and Syria (ISIS). It is ideal for audiences interested in Regional Politics, Islamic Studies and Middle Eastern Studies.

This five-volume set provides an encyclopedic compilation of terrorist biographies that focus on specific criminal events and their outcomes, and includes detailed information regarding each individual's terrorist activities. \* Organized geographically and alphabetically, allowing quick access to one specific name or reading that enables a deeper understanding of one of specific region \* Minimal cross-referencing allows faster access to full biographical information \* Offers chronological discussions of the careers of major--and minor--terrorists, continuing to build upon information presented in the authors' original terrorism titles \* A select bibliography with approximately 40 entries is included in each volume

This is the first book to specifically focus on semiconductor nanocrystals, and address their synthesis and assembly, optical properties and spectroscopy, and potential areas of nanocrystal-based devices. The enormous potential of nanoscience to impact on industrial output is now clear. Over the next two decades, much of the science will transfer into new products and processes. One emerging area where this challenge will be very successfully met is the field of semiconductor nanocrystals. Also known as colloidal quantum dots, their unique properties have attracted much attention in the last twenty years.

A top adviser at the Joint Intelligence Task Force for Combating Terrorism argues that winning the war against Militant Islamists requires a more nuanced understanding of their ideology. His book is among the first attempts to deconstruct and marginalize al-Qaida ideology using Islamic based arguments. By clearly defining the differences between Islam, Islamist, and Military Islamist, Aboul-Enein highlights

how militant Islamist ideology takes fragments of Islamic history and theology and weaves them into a narrow, pseudo-intellectual ideology to justify their violence against Muslims and non-Muslims alike. In offering a comprehensive explanation of how Militant Islamists have hijacked the Islamic religion, Aboul-Enein provides a realistic description of the militant threat, which is different and distinct from Islamist political discourse and the wider religion of Islam.

A joint effort of three continents, this book is about rational utilization of the fossil fuels for generation of heat or power. It provides a synthesis of two scientific traditions: the high-performance, but often proprietary, Western designs, and the elaborate national standards based on less advanced Eastern designs; it presents both in the same Western format. It is intended for engineers and advanced undergraduate and graduate students with an interest in steam power plants, burners, or furnaces. The text uses a format of practice based on theory: each chapter begins with an explanation of a process, with basic theory developed from first principles; then empirical relationships are presented and, finally, design methods are explained by worked out examples. It will thus provide researchers with a resource for applications of theory to practice. Plant operators will find solutions to and explanations of many of their daily operational problems. Designers will find this book ready with required data, design methods and equations. Finally, consultants will find it very useful for design evaluation.

Nanostructures for Novel Therapy: Synthesis, Characterization and Applications focuses on the fabrication and characterization of therapeutic nanostructures, in particular, synthesis, design, and in vitro and in vivo therapeutic evaluation. The chapters provide a cogent overview of recent therapeutic applications of nanostructured materials that includes applications of nanostructured

materials for wound healing in plastic surgery and stem cell therapy. The book explores the promise for more effective therapy through the use of nanostructured materials, while also assessing the challenges their use might pose from both an economic and medicinal point of view. This innovative look at how nanostructured materials are used in therapeutics will be of great benefit to researchers, providing a greater understanding of the different ways nanomaterials could improve medical treatment, along with a discussion of the obstacles that need to be overcome in order to guarantee widespread availability. Outlines how the characteristics of nanostructures made from different materials gives particular properties that can be successfully used in therapeutics Compares the properties of different nanostructures, allowing medicinal chemists and engineers to select which are most appropriate for their needs Highlights new uses of nanostructures within the therapeutic field, enabling the discovery of new, more effective drugs

This is a timely, an informative, an interesting, and a well-managed book. The book not only offers an in-depth review of the current status of the knowledge of electrospinning and its biomedical applications but also discusses the emerging ideas and features, both from the East and West, with a focus on the needless electrospinning for the production of uniform fibers. The book is equally helpful to the experts of this field, who wish to enhance their understanding of the emerging technologies, and to the new comers, who can use this book as a reference.

Honey typically has a complex chemical and biochemical composition that invariably includes complex sugars, specific proteins, amino acids, phenols, vitamins, and rare minerals. It is reported to be beneficial in the treatment of various diseases, such as those affecting

the respiratory, cardiovascular, gastrointestinal, and nervous systems, as well as diabetes mellitus and certain types of cancers; however, there is limited literature describing the use of honey in modern medicine. This book provides evidence-based information on the pharmaceutical potential of honey along with its therapeutic applications and precise mechanisms of action. It discusses in detail the phytochemistry and pharmacological properties of honey, highlighting the economic and culturally significant medicinal uses of honey and comprehensively reviewing the scientific research on the traditional uses, chemical composition, scientific validation, and general pharmacognostical characteristics. Given its scope, it is a valuable tool for researchers and scientists interested in drug discovery and the chemistry and pharmacology of honey.

This up-to-date, authoritative handbook and reference work covers all aspects of polyurethane product research and development, processing technology and applications, economy, and ecology. This book is written for processors and users of polyurethanes. No other work gives a more comprehensive overview of the current state of the art.

This book represents the seventeenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company entries have been entered in MAJOR COMPANIES OF THE ARAB WORLD absolutely free of ThiS volume has been completely updated compared to last charge, thus ensuring a totally objective approach to the year's

edition. Many new companies have also been included information given. this year. Whilst the publishers have made every effort to ensure that the information in this book was correct at the time of press, no The publishers remain confident that MAJOR COMPANIES responsibility or liability can be accepted for any errors or OF THE ARAB WORLD contains more information on the omissions, or for the consequences thereof. major industrial and commercial companies than any other work. The information in the book was submitted mostly by the ABOUT GRAHAM & TROTMAN LTD companies themselves, completely free of charge. To all those Graham & Trotman Ltd, a member of the Kluwer Academic companies, which assisted us in our research operation, we Publishers Group, is a publishing organisation specialising in express grateful thanks. To all those individuals who gave us the research and publication of business and technical help as well, we are similarly very grateful. information for industry and commerce in many parts of the world.

Electrospun Nanofibers covers advances in the electrospinning process including characterization, testing and modeling of electrospun nanofibers, and electrospinning for particular fiber types and applications. Electrospun Nanofibers offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science. Electrospinning is the most commercially successful process for the production of nanofibers and rising demand is driving research and development in this field. Rapid progress is

being made both in terms of the electrospinning process and in the production of nanofibers with superior chemical and physical properties. Electrospinning is becoming more efficient and more specialized in order to produce particular fiber types such as bicomponent and composite fibers, patterned and 3D nanofibers, carbon nanofibers and nanotubes, and nanofibers derived from chitosan. Provides systematic and comprehensive coverage of the manufacture, properties, and applications of nanofibers Covers recent developments in nanofibers materials including electrospinning of bicomponent, chitosan, carbon, and conductive fibers Brings together expertise from academia and industry to provide comprehensive, up-to-date information on nanofiber research and development Offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science

The presently common practice of wastes' land-filling is undesirable due to legislation pressures, rising costs and the poor biodegradability of commonly used materials. Therefore, recycling seems to be the best solution. The purpose of this book is to present the state-of-the-art for the recycling methods of several materials, as well as to propose potential uses of the recycled products. It targets professionals, recycling companies, researchers, academics and graduate students in the fields of waste management and polymer recycling in addition to chemical engineering, mechanical engineering, chemistry and physics. This book comprises 16 chapters covering areas such as, polymer recycling using

chemical, thermo-chemical (pyrolysis) or mechanical methods, recycling of waste tires, pharmaceutical packaging and hardwood kraft pulp and potential uses of recycled wastes.

The WHO World report on ageing and health is not for the book shelf it is a living breathing testament to all older people who have fought for their voice to be heard at all levels of government across disciplines and sectors. - Mr Bjarne Hastrup President International Federation on Ageing and CEO DaneAge This report outlines a framework for action to foster Healthy Ageing built around the new concept of functional ability. This will require a transformation of health systems away from disease based curative models and towards the provision of older-person-centred and integrated care. It will require the development sometimes from nothing of comprehensive systems of long term care. It will require a coordinated response from many other sectors and multiple levels of government. And it will need to draw on better ways of measuring and monitoring the health and functioning of older populations. These actions are likely to be a sound investment in society's future. A future that gives older people the freedom to live lives that previous generations might never have imagined. The World report on ageing and health responds to these challenges by recommending equally profound changes in the way health policies for ageing populations are formulated and services are provided. As the foundation for its recommendations the report looks at what the latest evidence has to say about the ageing process noting that many common perceptions and assumptions

about older people are based on outdated stereotypes. The report's recommendations are anchored in the evidence comprehensive and forward-looking yet eminently practical. Throughout examples of experiences from different countries are used to illustrate how specific problems can be addressed through innovation solutions. Topics explored range from strategies to deliver comprehensive and person-centred services to older populations to policies that enable older people to live in comfort and safety to ways to correct the problems and injustices inherent in current systems for long-term care.

This volume presents the recent developments on the biomedical applications of chitosan and its derivatives. Chitosan exhibits unique properties such as non-toxicity, biodegradability and biocompatibility. Since its chemical structure and properties can be easily modified, it can be an ideal candidate as a biomaterial. Consequently, chitosan and its derivatives are being developed in different forms such as nanoparticles, micelles, nanofibers, hydrogels, films and 3D porous materials for various biomedical applications, ranging from drug and gene delivery to tissue engineering and regenerative medicine. The chapters of this volume focus on the potential use of chitosan and its derivatives as a hemostatic agent, tissue sealants, tissue engineering scaffolds, delivery carriers for bioactive molecules in bone tissue engineering and wound dressings. Some chapter's deal with recent advancements of chitosan-based biomaterials as a drug, gene and transdermal drug delivery carrier. In addition, the volume focusses on

the prospects of chitosan-based systems for the treatment of cancer, eye and other infectious diseases. The volume will be of interest to material scientists, chemists and biotechnologists by providing a better understanding of the physicochemical and biological characteristics of chitosan and its derivatives to develop more appropriate and innovative chitosan-based materials modified for unlimited practical applications in biomedical fields.

This text makes learning and teaching a lot easier! Using a nursing process framework, this active learning book helps students develop effective thinking skills.

Readable, thorough and well-organized, the book's practical approach covers all aspects of critical thinking, and progresses from less complex to more complex material. Activities throughout the text encourage readers to identify, value, and enhance their thinking. Multiple examples of concepts from everyday life and nursing situations help readers apply learned information. Special features include: Action Learning exercises; Tracking Nursing Thinking checklists; Thinking-Learning Checks; multi-cultural focus; and numerous case studies. New in this edition: chapter on Designing Care: A Nurse and Patient Thinking Partnership; Nursing Interventions Classification (NIC) and Nursing Outcomes Classification (NOC); and a New Foreword by the authors of NIC.

Watching the revolution of January 2011, the world saw Egyptians, men and women, come together to fight for freedom and social justice. These events gave renewed urgency to the fraught topic of gender in the Middle East. The

role of women in public life, the meaning of manhood, and the future of gender inequalities are hotly debated by religious figures, government officials, activists, scholars, and ordinary citizens throughout Egypt. *Live and Die Like a Man* presents a unique twist on traditional understandings of gender and gender roles, shifting the attention to men and exploring how they are collectively "produced" as gendered subjects. It traces how masculinity is continuously maintained and reaffirmed by both men and women under changing socio-economic and political conditions. Over a period of nearly twenty years, Farha Ghannam lived and conducted research in al-Zawiya, a low-income neighborhood not far from Tahrir Square in northern Cairo. Detailing her daily encounters and ongoing interviews, she develops life stories that reveal the everyday practices and struggles of the neighborhood over the years. We meet Hiba and her husband as they celebrate the birth of their first son and begin to teach him how to become a man; Samer, a forty-year-old man trying to find a suitable wife; Abu Hosni, who struggled with different illnesses; and other local men and women who share their reactions to the uprising and the changing situation in Egypt. Against this backdrop of individual experiences, Ghannam develops the concept of masculine trajectories to account for the various paths men can take to embody social norms. In showing how men work to realize a "male ideal," she counters the prevalent dehumanizing stereotypes of Middle Eastern men all too frequently reproduced in media reports, and opens new spaces for rethinking patriarchal structures and their constraining effects on both men and women.

This book provides a comprehensive mechanistic interpretation of the transport phenomena involved in various basic modes of gas-liquid-solid fluidization. These modes include, for example, those for three-phase fluidized beds, slurry columns, turbulent contact absorbers, and three-phase

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fluidized beds, slurry columns, turbulent contact absorbers, and three-phase transport. It summarizes the empirical correlations useful for predicting transport properties for each mode of operation. Gas-Liquid-Solid Fluidization Engineering provides a comprehensive account of the state-of-the-art applications of the three-phase fluidization systems that are important in both small-and large-scale operations. These applications include fermentation, biological wastewater treatment, flue gas desulfurization and particulates removal, and resid hydrotreating. This book highlights the industrial implications of these applications. In addition, it discusses information gaps and future directions for research in this field.

This book opens with a detailed exploration of the fields of solar energy and thermoelectric conversion. Beginning with chapters on photoelectrochemical devices, properties and uses of photosensitive materials and solar cells, it then moves its focus on thermoelectricity, starting with an introduction to the subject and then explaining the field of thermoelectricity measurement. The book goes on to discuss the field of chemical and nuclear energy conversion and monitoring, including chapters on fast ionic conductors, oxygen ionic conductors and high-level radioactive waste and electrochemical gas sensors for emission control. This innovative new study is the first comprehensive survey of major new developments in energy conversion devices, with contributions from an international group of leading innovators.

Today, fiber reinforced composites are in use • properties of different component (fiber, in a variety of structures, ranging from space matrix, filler) materials; craft and aircraft to buildings and bridges. • manufacturing techniques; This wide use of composites has been facilitated by the introduction of new materials, • analysis and design; • testing; improvements

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in manufacturing processes • mechanically fastened and bonded joints; and developments of new analytical and test • repair; ing methods. Unfortunately, information on • damage tolerance; these topics is scattered in journal articles, in • environmental effects; conference and symposium proceedings, in and disposal; • health, safety, reuse, workshop notes, and in government and com • applications in: pany reports. This proliferation of the source - aircraft and spacecraft; material, coupled with the fact that some of - land transportation; the relevant publications are hard to find or - marine environments; are restricted, makes it difficult to identify and - biotechnology; obtain the up-to-date knowledge needed to - construction and infrastructure; utilize composites to their full advantage. - sporting goods. This book intends to overcome these diffi Each chapter, written by a recognized expert, culties by presenting, in a single volume, is self-contained, and contains many of the many of the recent advances in the field of 'state-of-the-art' techniques reqUired for prac composite materials. The main focus of this tical applications of composites.

As background reading for the twenty-fourth American Assembly.

This book introduces readers to both seed treatment and seedling pretreatments, taking into account various factors such as plant age, growing conditions and climate. Reflecting recent advances in seed priming and pretreatment techniques, it demonstrates how these approaches can be used to improve stress tolerance and enhance crop productivity. Covering the basic phenomena involved, mechanisms and recent innovations, the book offers a comprehensive guide for students, researchers and scientists alike, particularly Plant Physiologists, Agronomists, Environmental Scientists, Biotechnologists, and Botanists, who will find essential information on physiology and stress

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tolerance. The book also provides a valuable source of information for professionals at seed companies, seed technologists, food scientists, policymakers, and agricultural development officers around the world.

This book focuses on the recent advancements in the process parameters, research, and applications of electrospinning and electrospraying. The first chapter introduces the techniques and the effect of the parameters on the morphology of the nanofiber and nanoparticles and then the subsequent chapters focus on the applications of these techniques in different areas. This book will attract a broad audience including postgraduate students and industrial and academic investigators in sciences and engineering who wish to enhance their understanding of the emerging technologies and use this book as reference.

BetaSys uses the example of regulated exocytosis in pancreatic  $\beta$ -cells, and its relevance to diabetes, to illustrate the major concepts of systems biology, its methods and applications.

This new important book is a collection of research and review articles from different parts of the world discussing the dynamic and vibrant field of hydrogels. The articles are linking new findings and critically reviewing the fundamental concepts and principles that are making the base for innovation. Each chapter discusses the potential of hydrogels in diverse areas. These areas include tissue engineering, implants, controlled drug release, and oil reserve treatment. The book is offering an up-to-date knowledge of hydrogels to experienced as well as new researchers.

This book brings together recent research from across the world on enriched methane, and examines the

production, distribution and use of this resource in internal combustion engines and gas turbines. It aims to provide readers with an extensive account of potential technological breakthroughs which have the capacity to revolutionize energy systems. Enriched methane, a gas mixture composed by methane and hydrogen (10-30%vol), constitutes the first realistic step towards the application of hydrogen as an energy vector. It provides strong benefits in terms of emissions reduction, that is -11% of CO<sub>2</sub>, eq emission with the combustion of a 30%vol H<sub>2</sub> mixture, if hydrogen is produced from renewable energy sources. Enriched methane offers the following advantages: • it can be produced at competitive costs; • it can be distributed by means of the medium pressure natural gas grid; • it can be stored in traditional natural gas storage systems; • it can feed natural gas internal combustion engine, improving conversion efficiency. /divdivThis book is intended for academics in chemical engineering and energy production, distribution and storage. It is also intended for energy producers, engineering companies and R&D organizations./divdivbr With a history as ancient as any cultivated fruit, many believe the fig has been with us even longer than the pomegranate. The Ficus constitutes one of the largest and hardiest genera of flowering plants featuring as many as 750 species. Although the extraordinary mutualism between figs and their pollinating wasps has received much attention, the phylogeny of both partners is only beginning to be reconstructed. The fig plant does have a long history of traditional use as a medicine and has been a subject of significant modern research. Figs,

the Genus Ficus brings together those histories, ancient and modern, to present an extraordinary profile of an extraordinary plant with an abundance of medical uses and a reputation as both a delicacy and a diet staple in some regions of the world. Several chapters within the book are devoted to intensive study of different parts of the tree: fruits, leaves, bark and stem, roots, and latex. These chapters discuss the Ficus genus as a whole, including the botany of the most important species that have been related to that particular part pharmacologically. The authors, Dr. Ephraim Lansky MD, highly respected as one of the world's only physician pharmacognocists and Dr. Helena Paavilainen, a renowned researcher of natural products, go on to consider the chemistry and pharmacology of each part in selected Ficus species, and modern, medieval, and ancient methods for obtaining and preparing the beneficial components from that plant part for medicinal use. Special attention is paid to the plants' propensity for fighting inflammation, including cancer. Figs' future potential is considered in a number of treatments, as are future areas of research. Includes a wealth of comparative tables for quick reference Provides dozens of illustrative and original high-quality photos as well as drawings and chemical structures Offers complete references after every chapter Figs, the Genus Ficus is a book in the CRC Press Series, Traditional Herbal Medicines for Modern Times, edited by Roland Hardman. Each volume in this series provides academia, health sciences, and the herbal medicines industry with in-depth coverage of the herbal remedies for infectious

diseases, certain medical conditions, or the plant medicines of a particular country. Figs, the Ficus trees, are an understudied genus in modern pharmacognosy. This book present a multidisciplinary approach to the botany, chemistry, and pharmacology of fig trees and figs of the Ficus species, including the fig of commerce, Ficus carica, the rubber tree, Ficus elastic, and the Bo tree, Ficus religiosa. Traditional and current uses of figs in medicine are discussed in detail. The book also explores how figs and fig tree parts are processed, and the pharmacological basis underlying the potential efficacy of preparations is investigated in relation to their chemical composition. The book moves seamlessly from mythology to botany to ethnomedicine to pharmacology to phytochemistry.

This text represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Sixth World Congress on Engineering Asset Management (WCEAM) held in Cincinnati, OH, USA from October 3-5, 2011 The Proceedings of the WCEAM 2011 is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such as: Asset condition monitoring and intelligent maintenance; Asset data warehousing, data mining and fusion; Asset performance and level-of-service models; Design and lifecycle integrity of physical assets; Deterioration and preservation models for assets; Education and training in asset management; Engineering standards in asset management; Fault diagnosis and prognostics; Financial analysis methods

for physical assets; Human dimensions in integrated asset management; Information quality management; Information systems and knowledge management; Intelligent maintenance; Intelligent sensors and devices; Maintenance strategies in asset management; Optimization decisions in asset management; Prognostics & Health Management; Risk management in asset management; Strategic asset management; and Sustainability in asset management.

Transparent conducting materials are key elements in a wide variety of current technologies including flat panel displays, photovoltaics, organic, low-e windows and electrochromics. The needs for new and improved materials is pressing, because the existing materials do not have the performance levels to meet the ever-increasing demand, and because some of the current materials used may not be viable in the future. In addition, the field of transparent conductors has gone through dramatic changes in the last 5-7 years with new materials being identified, new applications and new people in the field. "Handbook of Transparent Conductors" presents transparent conductors in a historical perspective, provides current applications as well as insights into the future of the devices. It is a comprehensive reference, and represents the most current resource on the subject.

As the editor, I feel extremely happy to present to the readers such a rich collection of chapters authored/co-authored by a large number of experts from around the world covering the broad field of guided wave optics and optoelectronics. Most of the chapters are state-of-the-art

on respective topics or areas that are emerging. Several authors narrated technological challenges in a lucid manner, which was possible because of individual expertise of the authors in their own subject specialties. I have no doubt that this book will be useful to graduate students, teachers, researchers, and practicing engineers and technologists and that they would love to have it on their book shelves for ready reference at any time.

'I am unaware of any textbook which provides such comprehensive coverage of the field and doubt that this work will be surpassed in the foreseeable future, if ever!' From the foreword by Robert C. Moellering, Jr., M.D, Shields Warren-Mallinckrodt Professor of Medical Research, Harvard Medical School, USA Kucers' The Use of Antibiotics is the leading major reference work in this vast and rapidly developing field. More than doubled in length compared to the fifth edition, the sixth edition comprises 3000 pages over 2-volumes in order to cover all new and existing therapies, and emerging drugs not yet fully licensed. Concentrating on the treatment of infectious diseases, the content is divided into 4 sections: antibiotics, anti-fungal drugs, anti-parasitic drugs and anti-viral drugs, and is highly structured for ease of reference. Within each section, each chapter is structured to cover susceptibility, formulations and dosing (adult and paediatric), pharmacokinetics and pharmacodynamics, toxicity and drug distribution, detailed discussion regarding clinical uses, a feature unique to this title. Compiled by an expanded team of internationally renowned and respected editors, with a

vast number of contributors spanning Europe, Africa, Asia, Australia, South America, the US and Canada, the sixth edition adopts a truly global approach. It will remain invaluable for anyone using antimicrobial agents in their clinical practice and provides in a systematic and concise manner all the information required when treating infections requiring antimicrobial therapy. Kucers' The Use of Antibiotics is available free to purchasers of the books as an electronic version on line or on your desktop: It provides access to the entire 2-volume print material It is fully searchable, so you can find the relevant information you need quickly Live references are linked to PubMed referring you to the latest journal material Customise the contents - you can highlight sections and make notes Comments can be shared with colleagues/tutors for discussion, teaching and learning The text can also be reflowed for ease of reading Text and illustrations copied will be automatically referenced to Kucers' The Use of Antibiotics

Discovery of new transport phenomena and invention of electron devices through exploitation of these phenomena have caused a great deal of interest in the properties of compound semiconductors in recent years. Extensive re search has been devoted to the accumulation of experimental results, par ticularly about the artificially synthesised compounds. Significant advances have also been made in the improvement of the related theory so that the values of the various transport coefficients may be calculated with suf ficient accuracy by taking into account all the complexities of energy band structure and electron scattering mechanisms.

Knowledge about these developments may, however, be gathered only from original research contributions, scattered in scientific journals and conference proceedings. Review articles have been published from time to time, but they deal with one particular material or a particular phenomenon and are written at an advanced level. Available text books on semiconductor physics, do not cover the subject in any detail since many of them were written decades ago. There is, therefore, a definite need for a book, giving a comprehensive account of electron transport in compound semiconductors and covering the introductory material as well as the current work. The present book is an attempt to fill this gap in the literature. The first chapter briefly reviews the history of the development of compound semiconductors and their applications. It is also an introduction to the contents of the book.

Reducing the amount of solid wastes in landfills is one of the main targets in nowadays wastes treatment. To this direction, there is a great need in finding of smart recycling techniques which should, as is possible, to be environmentally friendly. The intention of this book is to present some recent methods for the recycling of several materials, including plastics and wood, as well as to show the importance of composting of polymers. It targets professionals, recycling companies, researchers, academics and graduate students in the fields of waste management and polymer recycling in addition to chemical engineering, mechanical engineering, chemistry and physics. This book comprises 5 chapters covering areas such as, recycling of polystyrene,

polyesters, PC, WEEE and wood waste, together with compostable polymers and nanocomposites.

With the military seizing overt power in Egypt, Cairo's grand and dramatic urban reshaping during and after 2011 is reflected upon under the lens of a smaller story narrating everyday interactions of a middle-class building in the neighbourhood of Doqi.

This volume discusses the sustainability of Egypt's agriculture and the challenges involved. It provides a comprehensive review and the latest research findings, and covers a variety of topics under the following themes: · Integrated natural resources management for sustainable production · Integrated biopesticides and biofertilizers for sustainable agriculture · Integrated plant and animal production for a sustainable food supply · Policies for sustainable agriculture in Egypt The volume closes with a summary of the key conclusions and recommendations from all chapters. Together with the companion volume Sustainability of Agricultural Environment in Egypt: Part I, it offers an essential source of information for postgraduate students, researchers, and stakeholders alike.

The fifteen chapters in this volume of Sociology of Crime, Law, and Deviance discuss a number of issues researchers in the fields of sociology, criminology, and criminal justice theorize, conceptualize, and measure racialization and counter-radicalization.

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