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Volumes) Integration of Process Knowledge into Design Support Systems Wear Green Metal Nanoparticles Herbal Formularies for Health Professionals, Volume 3 Flow Around Circular Cylinders Oxidative Stress in Diabetic Retinopathy Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition Model Uncertainties in Foundation Design Clinical Nephrogeriatrics Corrosion and Fouling Control in Desalination Industry Digital Libraries

This book includes the best-selected papers on the latest advancements in underground structures and geological engineering. The ongoing population growth is resulting in rapid urbanization, new infrastructure development, and increasing demand for the Earth's natural resources (e.g., water, oil/gas, minerals). This, together with the current climate change and increasing impact of natural hazards, implies that the engineering geology profession is called upon to respond to new challenges. It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions. Advances in Risk and Prevention Research and Treatment / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Risk and Prevention. The editors have built Advances in Risk and Prevention Research and Treatment / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Risk and Prevention in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Risk and Prevention Research and Treatment / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with

authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Issues in Materials and Manufacturing Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Materials and Manufacturing Research. The editors have built Issues in Materials and Manufacturing Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Materials and Manufacturing Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Materials and Manufacturing Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. This book is a printed edition of the Special Issue "DHA for Optimal Health" that was published in Nutrients "When the first armchair smashed into the asphalt, Sergeant Ashmouni was at his usual spot on the median of the Nile Corniche, trapped by the road's twin currents turbulently flowing forth to Maadi and back to Old Cairo. He was wiping the sweat away from his eyes with his worn out sleeve and in the process adding a new stain to his white traffic-police uniform when surprise from the thunderous impact catapulted him into the fast lane of the side of the road closest to the Nile." Thus opens this fast-paced city thriller laced with dry humor that takes us inside Borg al-Saada 'Tower of Happiness,' one of the luxury high-rises planted like alien bodies amid the fields along the Nile south of Cairo and inside the sordid lives and lavish lifestyles of its superrich and famous denizens. The naked, strangled body of Ahlam, a beautiful young actress, is discovered

in one of the elevators, and as the police investigation gets under way, we meet many of the tower's strange characters: the owner's agent, Kasib Bey, overweight, toupeed, and decked in gold chains; wealthy contractor Abd al-Tawab Mabruk Basha (Tutu Basha to his friends), insomniac since Ahlam's murder; Abd al-Malak, a psychic with a Ph.D. in genetic engineering from MIT; Farah, his erstwhile sweetheart, who has become one of the very candy dolls she used to scorn; belly-dancer Lula Hamdi, who would be able to see Timbuktu if she stood on top of a pile of all her money; Madame Esmeralda, the society lady from Chile; and the homely Dr. Mahgub, somewhat less well off than his neighbors. And of course there is Antar the naughty boy who roams the tower, enters apartments, and overhears conversations, unsettling and exposing the decadent occupants and their relationships.

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology. The editors have built Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and

credibility. More information is available at <http://www.ScholarlyEditions.com/>. Design is a fundamental creative human activity. This certainly applies to the design of artefacts, the realisation of which has to meet many constraints and ever raising criteria. The world in which we live today, is enormously influenced by the human race. Over the last century, these artefacts have dramatically changed the living conditions of humans. The present wealth in very large parts of the world, depends on it. All the ideas for better and new artefacts brought forward by humans have gone through the minds of designers, who have turned them into feasible concepts and subsequently transformed them into realistic product models. The designers have been, still are, and will remain the leading 'change agents' in the physical world. Manufacturability of artefacts has always played a significant role in design. In pre industrial manufacturing, the blacksmith held the many design and realisation aspects of a product in one hand. The synthesis of the design and manufacturing aspects took, almost implicitly, place in the head of the man. All the knowledge and the skills were stored in one person. Education and training took place along the line of many years of apprenticeship. When the production volumes increased, '-assembling to measure' was no longer tolerated and production efficiency became essential - design, process planning, production planning and fabrication became separated concerns. The designers created their own world, separated from the production world. They argued that restrictions in the freedom of designing would badly influence their creativity in design.

Polyethylene Glycols: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Polyethylene Glycols. The editors have built Polyethylene Glycols: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Polyethylene Glycols in this eBook to be deeper than what

you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Polyethylene Glycols: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. This text offers an authoritative compilation of experimental data, theoretical models, and computer simulations which will provide the reader with a comprehensive survey of research work on the phenomenon of flow around circular cylinders. The combination of an increasing prevalence of diabetes and the aging of populations enables the appearance of a greater number of associated complications such as diabetic retinopathy. Diabetic retinopathy is the leading cause of preventable vision loss in working-age adults. The objective of this Special Issue is to highlight the existing evidence regarding the relationship between oxidative stress and low-grade chronic inflammation induced by hyperglycemia with the development and progression of diabetic retinopathy, with an emphasis on the importance of early diagnosis and the use of antioxidant and anti-inflammatory approaches to prevent or delay the harmful effects of diabetes on retinal tissue. Tribology is emerging from the realm of steam engines and crank-case lubricants and becoming key to vital new technologies such as nanotechnology and MEMS. Wear is an integral part of tribology, and an effective understanding and appreciation of wear is essential in order to achieve the reliable and efficient operation of almost any machine or device. Knowledge in the field has increased considerably over recent years, and continues to expand: this book is intended to stimulate its readers to contribute towards the progress of this fascinating

subject that relates to most of the known disciplines in physical science. *Wear - Materials, Mechanisms and Practice* provides the reader with a unique insight into our current understanding of wear, based on the contributions of numerous internationally acclaimed specialists in the field. Offers a comprehensive review of current knowledge in the field of wear. Discusses latest topics in wear mechanism classification. Includes coverage of a wide variety of materials such as metals, polymers, polymer composites, diamonds, and diamond-like films and ceramics. Discusses the chemo-mechanical linkages that control tribology, providing a more complete treatment of the subject than just the conventional mechanical treatments. Illustrated throughout with carefully compiled diagrams that provide a unique insight into the controlling mechanisms of tribology. The state of the art research on wear and the mechanisms of wear featured will be of interest to post-graduate students and lecturers in engineering, materials science and chemistry. The practical applications discussed will appeal to practitioners across virtually all sectors of engineering and industry including electronic, mechanical and electrical, quality and reliability and design. The use of biological sources such as microbes and plants can help in synthesizing nanoparticles in a reliable and eco-friendly way. The synthesis of nanoparticles by these natural sources is characterized by processes that take place near to ambient temperature and pressures and also near neutral pH. This edited volume authored by subject specialists, provides all the latest research and builds a database of bioreduction agents to various metal nanoparticles using different precursor systems. The book also highlights the different strategies such as simplicity, cost-effectiveness, environment-friendly and easily scalable, and includes parameters for controlling the size and shape of the materials developed from the various greener methods. In order to exploit the utmost potential metal nanoparticles synthesis from the different sources such as agricultural waste, flora and fauna, food waste, microbes

and biopolymer systems, it is also crucial to recognize the biochemical and molecular mechanisms of production of nanoparticles and their characterization. Digital library is commonly seen as a type of information retrieval system which stores and accesses digital content remotely via computer networks. However, the vision of digital libraries is not limited to technology or management, but user experience. This book is an attempt to share the practical experiences of solutions to the operation of digital libraries. To indicate interdisciplinary routes towards successful applications, the chapters in this book explore the implication of digital libraries from the perspectives of design, operation, and promotion. Without common agreement on a broadly accepted model of digital libraries, authors from diverse fields seek to develop theories and empirical investigations that to advance our understanding of digital libraries. The increase in average life expectancy observed over recent decades has brought new challenges to nephrology practice. Several renal diseases are more frequent in elderly patients today, and even in healthy older individuals renal physiology has its own peculiarities. This leads to the need for a specific approach on renal aging and renal function in the elderly. However, despite the relevance of this topic, there are few books exclusively dedicated to geriatric nephrology. This book fills this gap by presenting a comprehensive overview of the differences between normal renal aging and chronic renal disease in the aged, and describes the particular aspects of nephropathy in the elderly, addressing it in a practical and clinically applicable fashion. *Clinical Nephrogeriatrics* bridges the gap between nephrology and geriatrics, discussing the most important issues concerning the relationship between these two medical specialties. This evidence-based resource, written by prominent specialists with extensive clinical experience, offers nephrologists, geriatricians, family physicians, and other medical professionals valuable practical guidelines and insights to enhance their clinical practice

and provide optimal care. This book intends to cover cleft-related topics which are mainly focused on the current concept of balancing excellence in outcome and burden of cleft care. The wide spectrum of covered topics includes the understanding challenges and needs to deliver the modern surgical cleft care worldwide and comprehending multidisciplinary-based longitudinal life-changing concept. The chapters are focused on professional-friendly technical descriptions from diagnosis to execution such as nasoalveolar molding, cleft lip repair, cleft palate repair, myringotomy tube insertion, primary and secondary rhinoplasties, oronasal fistula reconstruction, velopharyngeal insufficiency management, virtual-aided alveolar reconstruction, surgery-first approach in cleft orthognathic surgery, 3D computer-assisted orthognathic surgery, revisionary surgeries, and postoperative care. Traditional and current principle-based methods are itemized into many algorithms and protocols to aid in diagnosing, planning, and selecting the best therapeutic approach in order to balance excellence in outcome and burden of care. Many surgical-, orthodontic-, speech-, and postoperative care-related technical examples, intraoperative photos, and full-colour illustrative drawings can guide the professionals working in multidisciplinary teams through each traditional and newer hybrid operative procedure in a detailed step-by-step fashion with emphasis on how to perform each procedure, rather than on theoretical-only descriptions. This book provides time- and scientifically-tested treatment algorithms to guide multidisciplinary teams during decision making process for each clinical scenario of the longitudinal cleft care

Fungi are eukaryotic microorganisms that include both unicellular and multicellular species. They have a worldwide distribution and a wide range of applications in diverse sectors, from environmental, food and medicine to biotechnological innovations. Fungal biochemical genetics involves the study of the relationships between genome, proteome and metabolome, and the underlying

molecular processes in both native and bioengineered fungi. This book provides a valuable resource on the challenges and potential of fungal biotechnology and related bioengineering and functional diversity for various industrial applications in the food, environmental, bioenergy and biorefining, and the biopharma sectors. In comparison to previous and related publications in the area of applied myco-biotech-engineering, this book bridges a knowledge gap in the areas related to prospects and investment as well as intellectual and technical issues. This book also provides information on recent commercial and economic interests in the area by juxtaposing the developments achieved in recent worldwide research and its many challenges.

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Nanobiotechnology: Microbes and Plant Assisted Synthesis of Nanoparticles, Mechanisms and Applications covers in detail the green synthesis of nanostructures of tailor-made size, shape and physico-chemical and opto-electronic properties. The rationale behind the selection of bacteria, cyanobacteria, algae, fungi, virus and medicinal plants for the synthesis of biologically active exotic nanoparticles for biomedical applications is also part of this book. It also explores metal recovery, bioconversion, detoxification and removal of heavy metals using nanobiotechnology and discusses the potential of nanobiotechnology to address environmental pollution and toxicity. The book further covers the economic and commercial aspects of such green nanobiotechnology initiatives, its current status in intellectual property rights like patents filed so far globally, technology transfers, and market potential. This information enables one to decipher the scope of biogenic nanoparticles and its prospects. Provides an overview on the general and applied aspects on nanotechnology Gives the scope of exploring bacteria, fungi, algae, virus and medicinal plants for the synthesis of exotic nanoparticles Furnishes a comprehensive report on the underlying molecular mechanisms behind the biosynthesis of nanoparticles Outlines sustainable alternative

strategies of bioremediation of heavy metals, metal recovery, detoxification and bioconversion using nanobiotechnology

Explores the promises of patenting, technology transfer and commercialization potential of biogenic nanoparticles

This book addresses two critical problems that plague materials that make up components in both desalination and cooling water systems: corrosion, and fouling. The book addresses various types and components of industrial desalination technologies with solutions for controlling corrosion, scaling and biofouling. Issues unique to desalination systems, vital for the production of clean water, are considered as well. Green technologies are discussed throughout, along with environmental and economic considerations. The book presents solutions to the problems encountered by internal and external parts of these systems and will aid professionals that design, operate, and maintain them. It will be valuable to professionals in the materials, corrosion, electrochemical and wastewater industries, as well as chemical engineers.

Addresses the corrosion issues facing the conventional and modern water desalination systems;

Discusses the causes and remediation of problems caused by corrosion, scaling, and biofouling in water treatment;

Offers green solutions, thereby minimizing environmental impact while increasing control and productivity of water systems;

Suitable for professionals working with water desalination plants, materials scientists and corrosion engineers.

This book includes invited contributions presenting the latest research on the oceanography and environment of the Red Sea. In addition to covering topics relevant to research in the region and providing insights into marine science for non-experts, it is also of interest to those involved in the management of coastal zones and encourages further research on the Red Sea

This book incorporates all aspects of hypospadias management, such as step-by-step correction of chordee and modifications in tabularized urethral plate repair, which is the commonest technique used in hypospadias repair, single-stage two-stage

repairs of hypospadias with illustrated descriptions. It provides essential information like history, embryology, anatomy, Radiology in hypospadias, and classification of hypospadias. For the first time, this title presents separate chapters about female hypospadias, correction of torsion associated with hypospadias, and chordee without hypospadias. These chapters will improve the understanding of the subject for the reader and help them in modifying their surgical technique for these patients.

Hypospadias surgery has a long learning curve, and the book will help the practitioners make them shorter. The book also deals with acute and chronic complications of surgery which will help the reader prevent complications and manage them. This is a complete book covering all aspects of the evaluation & management of hypospadias and their variants. It includes chapters on a healthy interposition and appropriate use of spongiosum and the techniques of spongioplasty, modifications in flap tube repair, along with the various types of prepuce and prepucioplasty. In conclusion, the book will provide a comprehensive read for all trainees/fellows and practitioners of Urology, Pediatric urology, Pediatric Surgery, and Plastic Surgery. Jens Bosenberg Max-Planck-Institut für Meteorologie, Bundesstr. 55, D-20146 Hamburg, Germany TESLAS, which stands for Tropospheric Environmental Studies by Laser Sounding, was formed in November 1987 as a subproject of EUROTRAC to enhance the measurement capabilities for vertical profiling of ozone in the troposphere by means of laser remote sensing. For studies of several atmospheric processes related to the formation and redistribution of photo-oxidants there was a clear need for measuring extended time series with appropriate vertical and temporal resolution. These could not be obtained by conventional in situ techniques, at least not with affordable effort, so remote sensing appeared to be the best way to obtain the required information. At the beginning of the subproject, some Differential Absorption Lidar (DIAL) systems for measuring the

vertical distribution of ozone already existed, but their use was restricted to very few laboratories and very few measurement campaigns, since the instruments were highly complex, rather unreliable, and required extensive efforts for maintenance and operation by skilled scientists. In addition, the accuracy of these measurements under a variety of meteorological conditions was not really well established. The main tasks within TESLAS therefore were to develop fully the DIAL-methodology for remote sensing of tropospheric ozone, and to develop instruments which are accurate, reliable, easy to operate, and suitable for field deployment or airborne operation. The surface coating field is a rapidly developing area of science and technology that offers new methods and techniques to control friction and wear. New coating types are continually being developed and the potential applications in different industrial fields are ever growing, ranging from machine components and consumer products to medical instruments and prostheses. This book provides an extensive review of the latest technology in the field, addressing techniques such as physical and chemical vapour deposition, the tribological properties of coatings, and coating characterization and performance evaluation techniques. Eleven different cases are examined in close detail to demonstrate the improvement of tribological properties and a guide to selecting coatings is also provided. This second edition is still the only monograph in the field to give a holistic view of the subject and presents all aspects, including test and performance data as well as insights into mechanisms and interactions, thus providing the level of understanding vital for the practical application of coatings. * An extensive review of the latest developments in the field of surface coatings * Presents both theory and practical applications * Includes a guide for selecting coatings This book includes over three hundred and seventy-five short papers presented during the second EMCEI, which was held in Sousse, Tunisia in October 2019. After the success of the first EMCEI in 2017, the second

installment tackled emerging environmental issues together with new challenges, e.g. by focusing on innovative approaches that contribute to achieving a sustainable environment in the Mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities. Presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions, this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research initiatives in view of the worsening environmental degradation of the Mediterranean and surrounding regions, which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare. Herbal Formularies for Health Professionals is a five-volume set that serves as a comprehensive, practical reference manual for herbalists, physicians, nurses, and allied health professionals. Dr. Jill Stansbury draws on her decades of clinical experience and her extensive research to provide an unparalleled range of herbal formulas. Organized by body system, each volume includes hundreds of formulas to treat common health conditions, as well as formulas that address specific energetic or symptomatic presentations. For each formula, Dr. Stansbury briefly explains how the selected herbs address the specific condition. Sidebars and user-friendly lists help readers quickly choose which herbs are best for specific presentations and detail traditional uses of both Western and traditional Asian formulas and herbs that are readily available in the United States. Volume 3 focuses on endocrine systems, offering formulas and supporting information for treating thyroid disease, adrenal disorders, diabetes, and metabolic syndrome. This volume also covers the female and male reproductive systems including conditions related to menstruation and PMS, fertility and pregnancy, and the prostate.

Reproductive endocrinology is one of Dr. Stansbury's specialties, and she provides herbal formulas and therapies for pelvic inflammatory disease, genital herpes, ovarian cysts, endometriosis, PCOS, uterine fibroids, low libido, erectile dysfunction, and more. She also discusses the role of herbal medicine in prevention and treatment of reproductive cancers. Each chapter includes a materia medica section that describes individual herbs with tips on their properties, modes of action, and the specific symptoms each plant best addresses. These formularies are also a tutorial for budding herbalists on the sophisticated art of fine-tuning an herbal formula for the constitution and overall health condition of an individual patient, rather than prescribing a one-size-fits-all treatment for a basic diagnosis. The text aims to teach by example, helping clinicians develop their own intuition and ability to create effective herbal formulas. Volume 1 focuses on digestion and elimination and Volume 2 covers circulation and respiration. Volumes 4 (Neurology, Psychiatry, and Pain Management) and 5 (Immunology, Orthopedics, and Otolaryngology) will be published in 2020.

Ultra-wideband (UWB), short-pulse (SP) electromagnetics are now being used for an increasingly wide variety of applications, including collision avoidance radar, concealed object detection, and communications. Notable progress in UWB and SP technologies has been achieved by investigations of their theoretical bases and improvements in solid-state manufacturing, computers, and digitizers. UWB radar systems are also being used for mine clearing, oil pipeline inspections, archeology, geology, and electronic effects testing. Ultra-wideband Short-Pulse Electromagnetics 9 presents selected papers of deep technical content and high scientific quality from the UWB-SP9 Conference, which was held from July 21-25, 2008, in Lausanne, Switzerland. The wide-ranging coverage includes contributions on electromagnetic theory, time-domain computational techniques, modeling techniques, antennas,

pulsed-power, UWB interactions, radar systems, UWB communications, broadband systems and components. This book serves as a state-of-the-art reference for scientists and engineers working in these applications areas. No other atlas presents pediatric urologic surgery with such care, attention to detail, and respect for the subject. Revised to include a new co-author and new illustrations, this new edition supplements comprehensive, step-by-step coverage of every procedure with the commentary of leading urologists. Over 60 new procedures present the latest advances in pediatric urologic surgery. Clear writing and detailed illustrations make this atlas ideal for both new and experienced surgeons. Depicts surgery as it is actually performed with beautiful illustrations that illuminate every step in each procedure. Follows a surgeon's approach to technique, providing step-by-step instructions so you understand key anatomy and events during surgery. Includes every procedure you might encounter in clinical practice for comprehensive coverage. Features a new co-author and new commentators-the most important names in urology-for expert guidance and a fresh understanding of the subject. Covers over 60 new procedures, including laparoscopic varicocele ligation, incision of the urethral plate, ileovesicostomy, laparoscopic orchiectomy, and cloacal exstrophy, to help you provide the best outcomes for pediatric patients. Given their direct impact on the health and quality of life for millions, inhalers represent a major turning point in the history of modern medicine. Inhaler devices: Fundamentals, design and drug delivery provides readers with an introduction to the fundamentals of inhaler technology, with a comprehensive discussion of the history of inhalers as well as a discussion on current research and development. Part one discusses the fundamentals and development of inhaler devices as well as drug formulations for inhalers. The treatment of asthma is also discussed. Part two reviews recent developments in drug formulation and nanotechnology for inhaler devices, emerging

inhaler technology and possible future trends. Inhaler devices: Fundamentals, design and drug delivery is an essential design guide for good industrial practice, and will be an invaluable resource for those researching and treating conditions such as asthma; and those developing and manufacturing inhalation devices. Introduces the fundamentals of inhaler technology Discusses the history of inhalers as well as current research and development as well as possible future trends Considers the development of inhaler devices, drug formulations and discusses the treatment of asthma Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life. Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications. Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties. Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This 4-part set of books contains precisely referenced chapters, emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies. The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry. Each volume offer deep insight into the subject being treated. Volume 1: Structure and Chemistry Volume 2: Processing and Applications Volume 3: Biodegradable Polymers Volume 4: Bioactive and Compatible Synthetic/Hybrid Polymers Model Uncertainties in Foundation Design is unique in the compilation of the largest and the most diverse load test databases to date, covering many foundation types (shallow foundations, spudcans, driven piles, drilled shafts, rock sockets and helical piles) and a wide range of ground conditions (soil to soft rock). All databases

with names prefixed by NUS are available upon request. This book presents a comprehensive evaluation of the model factor mean (bias) and coefficient of variation (COV) for ultimate and serviceability limit state based on these databases. These statistics can be used directly for AASHTO LRFD calibration. Besides load test databases, performance databases for other geo-structures and their model factor statistics are provided. Based on this extensive literature survey, a practical three-tier scheme for classifying the model uncertainty of geo-structures according to the model factor mean and COV is proposed. This empirically grounded scheme can underpin the calibration of resistance factors as a function of the degree of understanding - a concept already adopted in the Canadian Highway Bridge Design Code and being considered for the new draft for Eurocode 7 Part 1 (EN 1997-1:202x). The helical pile research in Chapter 7 was recognised by the 2020 ASCE Norman Medal. Advances in Opportunistic Infection Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Opportunistic Infection. The editors have built Advances in Opportunistic Infection Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Opportunistic Infection in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Opportunistic Infection Research and Treatment: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Presents an overview of the state of the art in mechanical design and

production. Both basic and applied research papers highlight recent trends, techniques and case studies in two major fields: analysis and design of mechanical systems and components; production and industrial engineering. This volume also includes all the invited keynote lectures presented at the conference. Contains 73 papers. It is rare that a book draws together the knowledge and experience of scientists, each a world leader in his or her discipline, to create a work that presents the state of the art in a field as rich and diverse as solar energy. In *Solar Energy - the State of the Art* this aim has been achieved. The book comprises twelve individual chapters, each dedicated to one of the major solar energy sub-disciplines and authored by an internationally recognised expert in the field. Areas covered range from solar radiation and meteorology, solar collectors and concentrators, solar energy and the built environment, to solar thermal electricity, photovoltaics, wind energy and the potential cost of ignoring solar energy resources. The papers examine the technology and field in question, discuss the rudiments and major applications, review the current science and technology and explore the remaining challenges for the future. *Solar Energy - the State of the Art* is an essential reference work for all solar energy practitioners, students, researchers and engineers wishing to gain a broad-based understanding of the theory, technology, applications and issues surrounding the broad, interdisciplinary field of solar energy. The book will form an important component of any library's solar energy holding and will be of particular benefit as an academic reference, as well as being of practical value to professionals who wish to gain a clear understanding of the concepts required to move forward in this field. Published with ISES. Overcoming biological barriers is of importance for solving the problems of many current drugs and vaccines, and is especially relevant in the commercial exploitation of new therapeutic strategies. This book focuses on the mechanistic issues related to the interaction between drug

delivery systems and biological barriers.

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