

## Construction Estimates By Max Fajardo

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Electrical Design Estimating and Costing  
Sustainability in Energy and Buildings  
Design of Reinforced Concrete  
Sustainable Cultural Management  
Architectural utilities

## **Sensors and Actuators in Smart Cities**

The environment of our planet is degrading at an alarming rate because of non-sustainable urbanization, industrialization and agriculture. Unsustainable trends in relation to climate change and energy use, threats to public health, poverty and social exclusion, demographic pressure and ageing, management of natural resources, biodiversity loss, land use and transport still persist and new challenges are arising. Since these negative trends bring about a sense of urgency, short term action is required, whilst maintaining a longer term perspective. The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy-making. This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils, bioremediation of pesticides from soil and waste water, toxic metals from soil, biological treatment of pulp and paper industry wastewater, sustainable solutions for agro processing waste management, solid waste management on climate change and human health, environmental impact of dyes and its remediation. Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples, biofilm formation by the environmental bacteria, biochemical attributes to assess soil ecosystem sustainability, application of rhizobacteria in biotechnology, role of peroxidases as a tool for the decolorization and removal of

dyes and potential of biopesticides in sustainable agriculture. It offers a unique treatment of the subject, linking various protection strategies for sustainable development, describing the inter-relationships between the laboratory and field eco-toxicologist, the biotechnology consultant, environmental engineers and different international environmental regulatory and protection agencies.

### **Hurdles for Phage Therapy (PT) to Become a Reality**

Epilepsy seems to represent one of the most frequent neurological diseases and occurs in about 1% of the general population. Although epilepsy is known since antiquity, the precise data on its pathogenesis and effective treatment are still collected and nowadays represents an interest for neurologists and psychiatrists. Being a neurological disease, epilepsy is characterized by a broad palette of comorbid psychiatric disorders (affective and anxiety disorders, psychoses) that reduce the quality of life. Moreover, the risk of suicidal attempts in persons with epilepsy is much higher than in general population that once again increases the actuality of epilepsy research in many aspects. The book contains 13 chapters written by different authors from all over the world on different topics, including phenomenology, pathogenesis, and treatment in epilepsy. The modern data on these topics may be helpful for many specialists in the domain of epileptology.

## **Ray Tracing Gems**

TRB's National Cooperative Highway Research Program (NCHRP) Report 716: Travel Demand Forecasting: Parameters and Techniques provides guidelines on travel demand forecasting procedures and their application for helping to solve common transportation problems.

## **Health of People, Health of Planet and Our Responsibility**

## **Elements of Roads and Highways**

This volume consists of 52 peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM-19) held in Budapest, Hungary in July 2019. Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies, and at the same time improve its sustainability by reducing its environmental impact. The topic includes the sustainable design of products and services; the sustainable manufacturing of all products; energy efficiency in manufacturing; innovation for eco-design; circular economy; industry 4.0; industrial metabolism; automotive and transportation systems. Application

areas are wide and varied. The book will provide an excellent overview of the latest developments in the Sustainable Design and Manufacturing Area.

### **Endocarditis**

The connections between culture and sustainability have been in the public agenda since the 20th century. However, whilst global sustainability programmes at international institutional levels are yet to recognise the role of culture in their sustainability policies, the bid (albeit failed) in the early 2000s to formally add “culture” to the trilogy of sustainability pillars (economic, social, and environmental) mobilised a new discourse for the reframing of cultural policy narrative, which in turn urged a reassessment of methods of cultural management reflecting the same concerns among the sector’s grassroots. The idea of sustainability and culture working together and their envisioned role in future-proofing society and human development captured the imagination of cultural commentators, policy makers and practitioners alike, keen to fulfil these principles “out there”—in cultural organizations and events mega and small, in cities and regions, local and global. The papers in this Special Issue reflect this appeal. This publication covers a wide selection of issues related to sustainable cultural management, which means that it can be recommended to a varied audience. First of all, it can be recommended to managers experienced in cultural management, where success is measured more by the degree of mission accomplishment and

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the social benefits achieved rather than by profit. Another group comprises the employees of cultural organizations who want to improve their knowledge of sustainable cultural management. This Special Issue can also be recommended to artists, researchers, students, state and local government employees, founders and patrons of art, and all those who want to understand the importance of sustainable cultural management.

### **Engineering of Functional Skeletal Tissues**

A growing concern among those interested in economic development is the realization that hundreds of billions of dollars are illicitly flowing out of developing countries to tax havens and other financial centers in the developed world. This volume assesses the dynamics of these flows, much of which is from corruption and tax evasion.

### **The Novels of Gillian Flynn**

Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and

construction and labour costs

### **A Handbook for DNA-Encoded Chemistry**

This open access book not only describes the challenges of climate disruption, but also presents solutions. The challenges described include air pollution, climate change, extreme weather, and related health impacts that range from heat stress, vector-borne diseases, food and water insecurity and chronic diseases to malnutrition and mental well-being. The influence of humans on climate change has been established through extensive published evidence and reports. However, the connections between climate change, the health of the planet and the impact on human health have not received the same level of attention. Therefore, the global focus on the public health impacts of climate change is a relatively recent area of interest. This focus is timely since scientists have concluded that changes in climate have led to new weather extremes such as floods, storms, heat waves, droughts and fires, in turn leading to more than 600,000 deaths and the displacement of nearly 4 billion people in the last 20 years. Previous work on the health impacts of climate change was limited mostly to epidemiologic approaches and outcomes and focused less on multidisciplinary, multi-faceted collaborations between physical scientists, public health researchers and policy makers. Further, there was little attention paid to faith-based and ethical approaches to the problem. The solutions and actions we explore in this book engage diverse sectors

of civil society, faith leadership, and political leadership, all oriented by ethics, advocacy, and policy with a special focus on poor and vulnerable populations. The book highlights areas we think will resonate broadly with the public, faith leaders, researchers and students across disciplines including the humanities, and policy makers.

### **Construction Surveying and Layout**

Advances in Wastewater Treatment presents a compendium of the key topics surrounding wastewater treatment, assembled by looking at the future technologies, and provides future perspectives in wastewater treatment and modelling. It covers the fundamentals and innovative wastewater treatment processes (such as membrane bioreactors and granular process). Furthermore, it focuses attention on mathematical modelling aspects in the field of wastewater treatments by highlighting the key role of models in process design, operation and control. Other topics include: • Anaerobic digestion • Biological nutrient removal • Instrumentation, control and automation • Computational fluid dynamics in wastewater • IFAS systems • New frontiers in wastewater treatment • Greenhouse gas emissions from wastewater treatment Each topic is addressed by discussing past, present and future trends. Advances in Wastewater Treatment is a valid support for researchers, practitioners and also students to have a frame of the frontiers in wastewater treatment and modelling.



## **New Advances on Zika Virus Research**

## **Estimator's General Construction Manhour Manual**

## **Green Building Illustrated**

This report discusses several different approaches that support reforming health care services in developing countries. For some time now, health care services have been supported by government funds. As demands for improving health care services continue to increase additional demands will be placed on governments to respond. This, however, will not be easy. Slow economic growth and record budget deficits in the 1980's have forced reductions in public spending. Alternative approaches to finance health care services are needed. Such possible changes could involve: decentralization of federal government involvement; the promotion of nongovernment involvement; the imposition of user fees; and, establishing health insurance. Finally, the role of the Bank in pursuing new financing strategies is discussed.

## **Epileptology**

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#1 New York Times and internationally bestselling author Naomi Klein makes the case for a Green New Deal in this “keenly argued, well-researched, and impassioned” manifesto (The Washington Post). An instant bestseller, *On Fire* shows Klein at her most prophetic and philosophical, investigating the climate crisis not only as a profound political challenge but also as a spiritual and imaginative one. Delving into topics ranging from the clash between ecological time and our culture of “perpetual now,” to the soaring history of humans changing and evolving rapidly in the face of grave threats, to rising white supremacy and fortified borders as a form of “climate barbarism,” this is a rousing call to action for a planet on the brink. An expansive, far-ranging exploration that sees the battle for a greener world as indistinguishable from the fight for our lives, *On Fire* captures the burning urgency of the climate crisis, as well as the fiery energy of a rising political movement demanding a catalytic Green New Deal. “Naomi Klein’s work has always moved and guided me. She is the great chronicler of our age of climate emergency, an inspirer of generations.” —Greta Thunberg, climate activist “If I were a rich man, I’d buy 245 million copies of Naomi Klein’s ‘On Fire’ and hand-deliver them to every eligible voter in America...Klein is a skilled writer.” —Jeff Goodell, The New York Times

## **Travel Demand Forecasting: Parameters and Techniques**

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This is the 3rd volume in a series of reviews centered on the single major topic of bone replacement, discussing the biology of stem cells and cell signals, the knowledge needed to make stem cell-engineered bone tissue a reality, and how to prevent bone allograft infection. Useful as a followup to its predecessors, and as a stand-alone reference, it will interest a broad audience from orthopedists and bioengineers to dentists.

### **Spectral Line Shapes in Astrophysics and Related Topics**

This manual provides the reader with an accurate and convenient method for estimating direct labor for general construction work for any given system, plant, or location. Through this book, the reader has a reliable process of obtaining and streamlining an efficient model of operation.

### **Teach Yourself Electricity and Electronics**

The Subject Electrical Design Estimating And Costing Covers An Important Functional Area Of An Electrical Diploma Holder. The Subject Is Taught In Various Forms In Different States. In Some States, It Is Covered Under Two Subjects, Namely, Electrical Design & Drawing And Electrical Estimating & Costing. In Some States It Is Taught As An Integrated Subject But Is Split Into Two Or Three Parts To

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Be Taught In Different Semesters.To Cater To The Needs Of Polytechnics Of Different States, The Content Of The Course Has Been Developed By Consulting The Curricula Of Various State Boards Of Technical Education In The Country. In Addition To Inclusion Of Conventional Topics, A Chapter On Motor Control Circuits Has Been Included In This Book. This Topic Is Of Direct Relevance To The Needs Of Industries And, As Such, Finds Prominent Place In The Curricula Of Most Of The States Of India. The Book Covers Topics Like Symbols And Standards, Design Of Light And Fan Circuits, Alarm Circuits, Panel Boards Etc. Design Of Electrical Installations For Residential And Commercial Buildings As Well As Small Industries Has Been Dealt With In Detail. In Addition, Design Of Overhead And Underground Transmission And Distribution Lines, Sub-Stations And Design Of Illumination Schemes Have Also Been Included.The Book Contains A Chapter On Motor Circuit Design And A Chapter On Design Of Small Transformers And Chokes. The Book Contains Theoretical Explanations Wherever Required. A Large Number Of Solved Examples Have Been Given To Help Students Understand The Subject Better. The Authors Have Built Up The Course From Simple To Complex And From Known To Unknown. Examples Have Generally Been Taken From Practical Situations. Indeed, Students Will Find This Book Useful Not Only For Passing Examinations But Even More During Their Professional Career.

### **Emerging Topics in Computer Vision**

Electrical units - Measuring devices - Direct-current circuit - Resistors - Cells and batteries - Magnetism - Inductance - Capacitance - Phase - Transformers - Semiconductors - Diodes - Amplifiers - Oscillators - Data transmission.

### **Handbook of Electrical Engineering**

Currently 868 million people are undernourished and 195 million children under five years of age are stunted. At the same time, over 1 billion people are overweight and obese in both the developed and developing world. Diseases previously associated with affluence, such as cancer, diabetes and cardio-vascular disease, are on the rise. Food system-based approaches to addressing these problems that could enhance food availability and diet quality through local production and agricultural biodiversity often fall outside the traditional scope of nutrition, and have been under-researched. As a consequence, there remains insufficient evidence to support well-defined, scalable agricultural biodiversity interventions that can be linked to improvements in nutrition outcomes.

Agricultural biodiversity is important for food and nutritional security, as a safeguard against hunger, a source of nutrients for improved dietary diversity and quality, and strengthening local food systems and environmental sustainability. This book explores the current state of knowledge on the role of agricultural biodiversity in improving diets, nutrition and food security. Using examples and case studies from around the globe, the book explores current strategies for

improving nutrition and diets and identifies key research and implementation gaps that need to be addressed to successfully promote the better use of agricultural biodiversity for rural and urban populations and societies in transition.

### **Environmental Protection Strategies for Sustainable Development**

This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop, one that can mitigate turmoil in world food supply and demand and

political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security.

### **Removal of Organic Pollution in Water Environment**

Due to limited publicly available software and lack of documentation, those involved with production volume rendering often have to start from scratch creating the necessary elements to make their system work. *Production Volume Rendering: Design and Implementation* provides the first full account of volume rendering techniques used for feature animation and visual effects production. It covers the theoretical underpinnings as well as the implementation of a working renderer. The book offers two paths toward understanding production volume rendering. It describes: Modern production volume rendering techniques in a generic context, explaining how the techniques fit together and how the modules are used to achieve real-world goals Implementation of the techniques, showing how to translate abstract concepts into concrete, working code and how the ideas work together to create a complete system As an introduction to the field and an overview of current techniques and algorithms, this book is a valuable source of

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information for programmers, technical directors, artists, and anyone else interested in how production volume rendering works. Web Resource The scripts, data, and source code for the book's renderer are freely available at <https://github.com/pvrbook/pvr>. Readers can see how the code is implemented and acquire a practical understanding of how various design considerations impact scalability, extensibility, generality, and performance.

### **Simplified Construction Estimate**

This book comprehensively describes the development and practice of DNA-encoded library synthesis technology. Together, the chapters detail an approach to drug discovery that offers an attractive addition to the portfolio of existing hit generation technologies such as high-throughput screening, structure-based drug discovery and fragment-based screening. The book: Provides a valuable guide for understanding and applying DNA-encoded combinatorial chemistry Helps chemists generate and screen novel chemical libraries of large size and quality Bridges interdisciplinary areas of DNA-encoded combinatorial chemistry – synthetic and analytical chemistry, molecular biology, informatics, and biochemistry Shows medicinal and pharmaceutical chemists how to efficiently broaden available “chemical space” for drug discovery Provides expert and up-to-date summary of reported literature for DNA-encoded and DNA-directed chemistry technology and methods



## **Activation of Small Molecules**

The development of civilization entails a growing demand for consumer goods. A side effect of the production and use of these materials is the production of solid waste and wastewater. Municipal and industrial wastewater usually contains a large amount of various organic compounds and is the main source of pollution of the aquatic environment. Therefore, the search for effective methods of wastewater and other polluted water treatment is an important element of caring for the natural environment. This book presents research on the determination and removal of environmentally hazardous organic compounds from aqueous samples. The articles included in this book describe the results of examinations, at the laboratory scale, of the efficiency of chemical as well as physical processes for the removal or degradation of selected model pollutants. Environmental studies, especially those concerning the determination of trace impurities, require effective isolation and concentration procedures. The methods used for this purpose should meet the requirements of green chemistry. The liquid phase microextraction procedures and use of electrochemical methods described in this book seem to be proper for environmental studies, as they are effective and environmentally friendly.

## **Financing Health Services in Developing Countries**

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The first to combine both the bioinorganic and the organometallic view, this handbook provides all the necessary knowledge in one convenient volume. Alongside a look at CO<sub>2</sub> and N<sub>2</sub> reduction, the authors discuss O<sub>2</sub>, NO and N<sub>2</sub>O binding and reduction, activation of H<sub>2</sub> and the oxidation catalysis of O<sub>2</sub>. Edited by the highly renowned William Tolman, who has won several awards for his research in the field.

### **Advances in Wastewater Treatment**

This book is full of examples of what designers can do once they learn the basics. This book presents an overview of the structural design process for designers with limited backgrounds in engineering analysis and mathematics. Included is information on structural systems and materials, the development of the general form and basic elements of a specific system, and construction plans and details. Included are examples of eleven different structural systems, each with an explanation of the design and a sample set of construction plans and details.

### **Diversifying Food and Diets**

Spectral lines, widths, and shapes are powerful tools for emitting/absorbing gas diagnostics in different astrophysical objects (from the solar system to the most

distant objects in the universe—quasars). On the other hand, experimental and theoretical investigations of laboratory plasma have been applied in spectroscopic astrophysical research, especially in research on atomic data needed for line shape calculations. Data on spectral lines and their profiles are also important for diagnostics, analysis, and the modelling of fusion plasma, laser-produced plasma, laser design and development, and various plasmas in industry and technology, like light sources based on plasmas or the welding and piercing of metals by laser-produced plasma. The papers from this book can be divided into four groups: 1. stark broadening data for astrophysical and laboratory plasma investigations; 2. applications of spectral lines for astrophysical and laboratory plasma research; 3. spectral line phenomena in extragalactic objects, and 4. laboratory astrophysics results for spectra investigation. The reviews and research papers, representing new research on the topics presented in this book, are of interest for specialists and PhD students. We hope that the present book will be useful and interesting for scientists interested in the investigation of spectral line shapes and will contribute to the education of young researchers and PhD students.

### **Production Volume Rendering**

“Green Building Illustrated is a must-read for students and professionals in the building industry. The combination of incredibly expressive illustrations and accessible technical writing make concepts of green building on paper as intuitive

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as they would be if you toured a space with experts in sustainable building.” —Rick Fedrizzi, President, CEO, and Founding Chair of the U.S. Green Building Council

“The authors of Green Building Illustrated deliver clear and intelligent text, augmented by straightforward but compelling illustrations describing green building basics. This comprehensive book covers everything from the definition of green building, to details of high performance design, to sensible applications of renewable energy. This is a book with appeal for all architects and designers, because it addresses general principles such as holistic and integrated design, along with practical realities like affordability and energy codes. Green Building Illustrated describes a pathway for reaching Architecture 2030’s carbon emission reduction targets for the built environment.”—Ed Mazria, founder of Architecture 2030

“...a neophyte will have a very good overview of all the factors involved in green building. I see some excellent pedagogy at work!” — Jim Gunshinan, Editor, Home Energy Magazine

Francis D.K. Ching brings his signature graphic style to the topic of sustainable design. In the tradition of the classic Building Construction Illustrated, Francis D.K. Ching and Ian M. Shapiro offer a graphical presentation to the theory, practices, and complexities of sustainable design using an approach that proceeds methodically. From the outside to the inside of a building, they cover all aspects of sustainability, providing a framework and detailed strategies to design buildings that are substantively green. The book begins with an explanation of why we need to build green, the theories behind it and current rating systems before moving on to a comprehensive discussion of vital topics. These topics

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include site selection, passive design using building shape, water conservation, ventilation and air quality, heating and cooling, minimum-impact materials, and much more. Explains the fundamental issues of sustainable design and construction in a beautifully illustrated format Illustrated by legendary author, architect, and draftsman Francis D.K. Ching, with text by recognized engineer and researcher Ian M. Shapiro Ideal for architects, engineers, and builders, as well as students in these fields Sure to be the standard reference on the subject for students, professionals, and anyone interested in sustainable design and construction of buildings, Green Building Illustrated is an informative, practical, and graphically beautiful resource.

### **The Potato Crop**

"Introduction -- Flexural analysis of beams -- Strength analysis of beams according to ACI code -- Design of rectangular beams and one-way slabs -- Analysis and design of T beams and doubly reinforced beams -- Serviceability -- Bond, development lengths, and splices -- Shear and diagonal tension -- Introduction to columns -- Design of short columns subject to axial load and bending -- Slender columns -- Footings -- Retaining walls -- Continuous reinforced concrete structures -- Torsion -- Two-way slabs, direct design method -- Two-way slabs, equivalent frame method -- Walls -- Prestressed concrete -- Formwork -- Reinforced concrete building systems." -- OhioLink Library Catalog.

### **On Fire**

Basic Clinical Radiobiology is a concise but comprehensive textbook setting out the essentials of the science and clinical application of radiobiology for those seeking accreditation in radiation oncology, clinical radiation physics, and radiation technology. Fully revised and updated to keep abreast of current developments in radiation biology and radiation oncology, this fifth edition continues to present in an interesting way the biological basis of radiation therapy, discussing the basic principles and significant developments that underlie the latest attempts to improve the radiotherapeutic management of cancer. This new edition is highly illustrated with attractive 2-colour presentation and now includes new chapters on stem cells, tissue response and the convergence of radiotherapy, radiobiology, and physics. It will be invaluable for FRCR (clinical oncology) and equivalent candidates, SpRs (and equivalent) in radiation oncology, practicing radiation oncologists and radiotherapists, as well as radiobiologists and radiotherapy physicists.

### **Basic Clinical Radiobiology**

A practical treatment of power system design within the oil, gas, petrochemical and offshore industries. These have significantly different characteristics to large-

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scale power generation and long distance public utility industries. Developed from a series of lectures on electrical power systems given to oil company staff and university students, Sheldrake's work provides a careful balance between sufficient mathematical theory and comprehensive practical application knowledge. Features of the text include: Comprehensive handbook detailing the application of electrical engineering to the oil, gas and petrochemical industries Practical guidance to the electrical systems equipment used on off-shore production platforms, drilling rigs, pipelines, refineries and chemical plants Summaries of the necessary theories behind the design together with practical guidance on selecting the correct electrical equipment and systems required Presents numerous 'rule of thumb' examples enabling quick and accurate estimates to be made Provides worked examples to demonstrate the topic with practical parameters and data Each chapter contains initial revision and reference sections prior to concentrating on the practical aspects of power engineering including the use of computer modelling Offers numerous references to other texts, published papers and international standards for guidance and as sources of further reading material Presents over 35 years of experience in one self-contained reference Comprehensive appendices include lists of abbreviations in common use, relevant international standards and conversion factors for units of measure An essential reference for electrical engineering designers, operations and maintenance engineers and technicians.

## **Simplified Design of Building Structures**

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This new addition will provide an update on the current prophylaxis guidelines, the new diagnostic approach in the detection of the disease, the proposed schemas to predict prognosis, and the new treatment strategies to improve the outcome of patients afflicted with this serious condition. Endocarditis is a serious disease with a high rate of morbidity and mortality. The in-hospital mortality remains at 10-20%. The poor outcome of patients with this condition is due in large part to the delay in making the diagnosis which frequently can be elusive. As a result of its wide spectrum of manifestations, endocarditis can mimic many different conditions ranging from stroke to renal failure. In order to minimize the delay in diagnosis, clinicians need to always be mindful of the possibility that endocarditis may be the cause of the symptoms. There have been ongoing efforts in the development of molecular probes and new imaging techniques to improve our ability to identify the disease early and reliably. New treatment strategies have been studied with the aim to prevent complications and to improve survival. The structure of the previous edition is preserved. The book is divided into three sections with the first section covering the historical perspective and basic principles, the second section dealing with the diagnosis and management approaches and the last section on specific clinical situations that pose management dilemmas. All the chapters will be updated to include new information from the recent studies. In particular, the approach to the use of antibiotic prophylaxis will be extensively revised to present and discuss the implications of the current guidelines from different national



societies including the American Heart Association and the British Society for Antimicrobial Chemotherapy. This update is timely and should be of interest to all clinicians involved in the care of patients with this serious disease. This new edition will be a good resource for internists, infectious disease specialists, cardiologists and cardiac surgeons alike .

### **Constipation**

Gerard Medioni and Sing Bing Kang present advances in computer vision such as camera calibration, multi-view geometry, and face detection, and introduce important new topics such as vision for special effects and the tensor voting framework. They begin with the fundamentals, cover select applications in detail, and introduce two popular approaches to computer vision programming.

### **Draining development?**

This volume represents the proceedings of the First International Conference on Sustainability in Energy and Buildings, SEB'09, held in the City of Brighton and Hove in the United Kingdom, organised by KES International with the assistance of the World Renewable Energy Congress / Network, and hosted by the University of Brighton. KES International is a knowledge transfer organisation providing high-

quality conference events and publishing opportunities for researchers. The KES association is a community consisting of several thousand research scientists and engineers who participate in KES activities. For over a decade KES has been a leader in the area of Knowledge Based and Intelligent information and Engineering Systems. Now KES is starting to make a contribution in the area of Sustainability and Renewable Energy with this first conference specifically on renewable energy and its application to domestic and other buildings. Sustainability in energy and buildings is a topic of increasing interest and importance on the world agenda. We therefore hope and intend that this first SEB event may grow and evolve into a conference series. KES International is a member of the World Renewable Energy Congress / Network which is Chaired by Professor Ali Sayigh. We are grateful to Professor Sayigh for the collaboration and assistance of WREC/N in the organisation of SEB'09. We hope to continue to work with WREC/N in the future on projects of common interest.

### **The Engineer's Cost Handbook**

Zika virus (ZIKV) is a mosquito-borne member of the Flaviviridae family that historically has been associated with mild febrile illness. However, the recent outbreaks in Brazil in 2015 and its rapid spread throughout South and Central America and the Caribbean, together with its association with severe neurological disorders—including fetal microcephaly and Guillain-Barré syndrome in

adults—have changed the historic perspective of ZIKV. Currently, ZIKV is considered an important public health concern that has the potential to affect millions of people worldwide. The significance of ZIKV in human health and the lack of approved vaccines and/or antiviral drugs to combat ZIKV infection have triggered a global effort to develop effective countermeasures to prevent and/or treat ZIKV infection. In this Special Issue of *Viruses*, we have assembled a collection of 32 research and review articles that cover the more recent advances on ZIKV molecular biology, replication and transmission, virus–host interactions, pathogenesis, epidemiology, vaccine development, antivirals, and viral diagnosis.

### **Sustainable Design and Manufacturing 2019**

This book is a printed edition of the Special Issue "Sensors and Actuators in Smart Cities" that was published in *JSAAN*

### **Electrical Design Estimating and Costing**

Alternative treatment modes for antibiotic-resistant bacterial pathogens have become a public health priority. Bacteriophages are bacterial viruses that infect and lyse bacterial cells. Since bacteriophages are frequently bacterial host species-specific and can often also infect antibiotic-resistant bacterial cells, they could

represent ideal antimicrobials for fighting the antibiotic resistance crisis. The medical use of bacteriophages has become known as phage therapy. It is widely used in Russia, where phage cocktails are sold in pharmacies as an over-the-counter drug. However, no phage product has been registered for medical purposes outside of the former Soviet Union. The current Special Issue of *Viruses* contains a collection of papers from opinion leaders in the field who explore hurdles to the introduction of phage therapy in western countries. The articles cover diverse topics ranging from patent to regulatory issues, the targeting of suitable bacterial infections, and the selection and characterization of safe and efficient phage cocktails. Phage resistance is discussed, and gaps in our knowledge of phage-bacterium interactions in the mammalian body are revealed, while other articles explore the use of phages in food production and processing.

### **Sustainability in Energy and Buildings**

The only book to deal specifically with constipation for specialists has been updated to include all the new advances since the first edition (1995). These advances include biofeedback, surgery for constipation, sacral nerve stimulation, the use of laparoscopy for rectal prolapse, treatment and our understanding of some of the psychological problems of these patients. Innovations also include Professor Norman Williams' Malone Procedure and the newer pharmacologic treatments such as nitric oxide and botulinum toxin injections.

## **Design of Reinforced Concrete**

"Gillian Flynn is the real deal, a sharp, acerbic, and compelling storyteller with a knack for the macabre." —Stephen King This collection, available exclusively as an ebook, brings together the first two novels of Gillian Flynn, author of the #1 New York Times bestseller *Gone Girl*. In *Sharp Objects*, Flynn's debut novel, a young journalist returns home to cover a dark assignment—and to face her own damaged family history. With its taut, crafted writing, *Sharp Objects* is addictive, haunting, and unforgettable. Flynn's second novel, *Dark Places*, is an intricately orchestrated thriller that ravages a family's past to unearth the truth behind a horrifying crime. A New York Times bestseller and *Weekend Today* Top Summer Read, *Dark Places* solidified Flynn's status as one of the most critically acclaimed suspense writers of our time.

## **Sustainable Cultural Management**

### **Architectural utilities**

This book is a must-have for anyone serious about rendering in real time. With the announcement of new ray tracing APIs and hardware to support them, developers

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can easily create real-time applications with ray tracing as a core component. As ray tracing on the GPU becomes faster, it will play a more central role in real-time rendering. Ray Tracing Gems provides key building blocks for developers of games, architectural applications, visualizations, and more. Experts in rendering share their knowledge by explaining everything from nitty-gritty techniques that will improve any ray tracer to mastery of the new capabilities of current and future hardware. What you'll learn: The latest ray tracing techniques for developing real-time applications in multiple domains Guidance, advice, and best practices for rendering applications with Microsoft DirectX Raytracing (DXR) How to implement high-performance graphics for interactive visualizations, games, simulations, and more Who this book is for: Developers who are looking to leverage the latest APIs and GPU technology for real-time rendering and ray tracing Students looking to learn about best practices in these areas Enthusiasts who want to understand and experiment with their new GPUs

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