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Technology and Global Public Health John Wiley & Sons

A vast number of children in the United States are evaluated and treated for urologic conditions by urologists practicing general urology due to the relatively few fellowship-trained pediatric urologists. Pediatric Urology: A General Urologist's Guide is written specifically for general urologists as a concise and comprehensive reference of the more common pediatric urologic conditions. Other health practitioners (i.e. pediatrician, family practitioner, residents, medical students, and mid-level providers) will also find this book a key reference. Written by well-respected pediatric urologists, this volume will assist the health care provider to rapidly review

the essential aspects of the physical examination, evaluation, diagnostic testing, and management while the patient is still in the office. The chapters are arranged into four sections to allow for easier access to the information: office urology, genitalia, urinary tract, and miscellaneous topics. Furthermore, the first chapter of the book will be dedicated to facts and figures (ex. normal penile and renal lengths based on age, dosing of common medications, and grading system for vesicoureteral reflux) that serves as a single source for this information. Pediatric Urology: A General Urologist's Guide offers the reader the essential information to assist them in the care of children. Digital Marketing Expert Diploma (Master 's level) - City of London College of

Economics - 10 months -
100% online / self-paced

Pearson Education India

The green revolution led to the development of improved varieties of crops, especially cereals, and since then, classical or molecular breeding has resulted in the creation of economically valuable species. Thanks to recent developments in genetic engineering, it has become possible to introduce genes from different sources, such as bacteria, fungi, viruses, mice and humans, to plants. This technology has made the scientific community aware of the critical role of transgenics, not only as a means of producing stress tolerant crops but also as a platform for the production of therapeutics through molecular farming. This book discusses the

commercial applications of plant transgenic technologies, including the use of transgenic cell culture approaches to improve the production of metabolites and high-value therapeutics as well as transgenic plants in pest management. It also explores generation of novel vectors, protein production using chloroplast engineering and the latest developments in this area, such as genome editing in plants. Featuring general discussions and research papers by leading international experts, it is a valuable resource for scientists, teachers, students and industrialists working in the field.

An Introduction to
Electrochemical Impedance
Spectroscopy John Wiley & Sons
This is an open access title
available under the terms of a CC
BY-NC-ND 4.0 International
licence. It is free to read at Oxford

Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Why did such highly abstract ideas as truth, knowledge, or justice become so important to us? What was the point of coming to think in these terms? In *The Practical Origins of Ideas* Matthieu Queloz presents a philosophical method designed to answer such questions: the method of pragmatic genealogy. Pragmatic genealogies are partly fictional, partly historical narratives exploring what might have driven us to develop certain ideas in order to discover what these do for us. The book uncovers an under-appreciated tradition of pragmatic genealogy which cuts across the analytic-continental divide, running from the state-of-nature stories of David Hume and the early genealogies of Friedrich Nietzsche to recent work in analytic philosophy by Edward Craig, Bernard Williams, and Miranda Fricker. However, these genealogies combine fictionalizing and historicizing in ways that even philosophers sympathetic to the use of state-of-nature fictions or real history have found puzzling.

To make sense of why both fictionalizing and historicizing are called for, this book offers a systematic account of pragmatic genealogies as dynamic models serving to reverse-engineer the points of ideas in relation not only to near-universal human needs, but also to socio-historically situated needs. This allows the method to offer us explanation without reduction and to help us understand what led our ideas to shed the traces of their practical origins. Far from being normatively inert, moreover, pragmatic genealogy can affect the space of reasons, guiding attempts to improve our conceptual repertoire by helping us determine whether and when our ideas are worth having.

Applied Engineering Sciences Springer Neamen's Semiconductor Physics and Devices, Third Edition. deals with the electrical properties and characteristics of semiconductor

materials and devices.

The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.

Intelligent

Renewable Energy

Systems Springer

Nature

Conceptual and precise, Modern Processor Design brings together numerous microarchitectural techniques in a clear, understandable framework that is easily accessible to both graduate and undergraduate students. Complex practices are

distilled into foundational principles to reveal the authors insights and hands-on experience in the effective design of contemporary high-performance micro-processors for mobile, desktop, and server markets. Key theoretical and foundational principles are presented in a systematic way to ensure comprehension of important implementation issues. The text presents fundamental concepts and foundational techniques such as processor design, pipelined processors, memory and I/O systems, and especially

superscalar organization and implementations. Two case studies and an extensive survey of actual commercial superscalar processors reveal real-world developments in processor design and performance. A thorough overview of advanced instruction flow techniques, including developments in advanced branch predictors, is incorporated. Each chapter concludes with homework problems that will institute the groundwork for emerging techniques in the field and an introduction to multiprocessor systems.

Pediatric Urology

McGraw-Hill Europe
This volume contains the proceedings of the 2017 International Conference on Advances in Big Data Analytics (ABDA'17).

Modern Fuzzy Control Systems and Its Applications

City of London College of Economics
Internet of things (IoT) applications employed for healthcare generate a huge amount of data that needs to be analyzed to produce the expected reports. To accomplish this task, a cloud-based analytical solution is ideal in order to generate faster

reports in comparison analytics in to the traditional healthcare IoT. way. Given the Covering topics such current state of the as data analytics and world in which every next generation day IoT devices are healthcare systems, developed to provide it is ideal for healthcare solutions, researchers, it is essential to academicians, consider the technologists, IT mechanisms used to specialists, data collect and analyze scientists, the data to provide healthcare thorough reports. industries, IoT Integrating AI in IoT developers, data Analytics on the security analysts, Cloud for Healthcare educators, and Applications applies students. artificial *Advances in Plant intelligence (AI) in Transgenics: Methods edge analytics for and Applications Springer Nature healthcare applications, This book introduces analyzes the impact readers to various of tools and types of offshore techniques in edge platform geometries. analytics for It addresses the healthcare, and various environmental discusses security loads encountered by solutions for edge these structures, and provides detailed*

descriptions of the fundamentals of structural dynamics in a classroom style, helping readers estimate damping in offshore structures and grasp these aspects' applications in preliminary analysis and design. Basic concepts of structural dynamics are emphasized through simple illustrative examples and exercises. Design methodologies and guidelines, which are FORM based concepts, are explained through a selection of applied sample structures. Each chapter also features tutorials and exercises for self-learning. A dedicated chapter on stochastic dynamics helps students to extend the basic concepts of structural dynamics to this advanced domain

of research.

Hydrodynamic response of offshore structures with perforated members is one of the most recent research applications, and has proven to be one of the most effective means of retrofitting offshore structures. In addition, the book integrates the concepts of structural dynamics with the FORM-evolved design of offshore structures, offering a unique approach. This new edition is divided into seven chapters, each of which has been updated. Each chapter also includes a section on frequently asked Questions and Answers (Q&A), which enhances understanding of this complex subject through easy and self-explanatory text. Furthermore, the book presents valuable

content with respect to new and recent research carried out by the author in structural dynamics. All numeric examples have been re-checked with more additional explanations. New exercises have been added to improve understanding of the subject matter. Computer coding is also included (wherever possible) to aid computer-based learning of the contents of the book. The book can serve as a textbook for senior undergraduate and graduate courses in civil, structural, applied mechanics, mechanical, aerospace, naval architecture and ocean engineering programs. The book can also serve as a text for professional learning and development programs

toor as a guide for practicing and consulting offshore structural engineers. The contents of this book will be useful to graduate students, researchers, and professionals alike. *Smart Systems and IoT: Innovations in Computing* Springer Avul Pakir Jainulabdeen Abdul Kalam, The Son Of A Little-Educated Boat-Owner In Rameswaram, Tamil Nadu, Had An Unparalled Career As A Defence Scientist, Culminating In The Highest Civilian Award Of India, The Bharat Ratna. As Chief Of The Country`S Defence Research And Development Programme, Kalam Demonstrated The Great Potential For

Dynamism And Innovation That Existed In Seemingly Moribund Research Establishments. This Is The Story Of Kalam`S Rise From Obscurity And His Personal And Professional Struggles, As Well As The Story Of Agni, Prithvi, Akash, Trishul And Nag--Missiles That Have Become Household Names In India And That Have Raised The Nation To The Level Of A Missile Power Of International Reckoning.

A DIY Guide to Telemedicine for Clinicians Oxford University Press
This Current Affairs Monthly Capsule December 2021 E-book will help you understand in detail

exam-related important news including National & International Affairs, Defence, Sports, Person in News, MoU & Agreements, S&T, Awards & Honours, Books etc.

Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society 2017

Worldcomp International C TO THE MODEL EVALUATION 1. MODELLING SOIL EROSION BY WATER 1 2 John Boardman and David Favis-Mortlock 1 School of Geography and Environmental Change Unit Mansfield Road University of Oxford Oxford OX1 3TB UK 2 Environmental Change Unit University of

Oxford 5 South Parks the possible impacts
 Road Oxford OX1 3UB of global change upon
 UK Introduction This soil erosion. Due to
 volume is the the wide range of
 Proceedings of the erosion models
 NATO Advanced currently, in use or
 Research Workshop under development, it
 'Global Change: was decided to
 Modelling Soil evaluate models in
 Erosion by Water', the following
 which was held on sequence Favis-
 II-14th September Mortlock et al.,
 1995, at the 1996): • field-scale
 University of Oxford, water erosion models
 UK. The meeting was • catchmenr-scale
 also one of a series water erosion models
 organised by the IGBP • wind erosion models
 1 GCTE Soil Erosion • models with a
 Network, which is a landscape-scale and
 component of GCTE's larger focus. As part
 Land Degradation Task of this strategy, the
 (3.3.2) (Ingram et first stage of the
 aI., 1996; Valentin, GCTE validation of
 this volume). One aim field-scale erosion
 of the GCTE Soil models was carried
 Erosion Network is to out at the Oxford
 evaluate the NATO-ARW. I A list of
 suitability of Acronyms fonns
 existing soil erosion Appendix A.
 models for predicting **Modelling Soil**

Erosion by Water

Springer

This book

introduces readers

to state-of-the-art

cases and tools for

managing innovation

in today's rapidly

changing business

environment. It

provides a wealth

of methodological

knowhow and

guidance on

practical

applications, as

well as case

studies that reveal

various challenges

in technology and

innovation

management. Written

by a mix of

academic scholars

and practitioners,

the respective

chapters present

tools and

approaches for the

early detection of

emerging fields of

innovation, as well

as relevant

processes and

resources. The

contributing

authors hail from

leading innovative

companies including

Google, Amazon,

Intel, Daimler-

Benz, and NASA.

Security, Privacy,

and Digital

Forensics in the

Cloud Springer

Overview In this

course you will

learn all you need

to know to become a

Digital Marketing

Expert. As you

surely know,

Digital Marketing

Specialists are in

high demand and

well paid. Content
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Strategy - Market
Research -
Crowdsourcing - Web
Development and
Design - Writing
for the Web -
Mobile Development
- Email Marketing -
Online Advertising
- Affiliate
Marketing - Search
Engine Marketing -
Search Engine
Optimisation - PPC
Advertising - And
much more Duration
10 months
Assessment The
assessment will
take place on the
basis of one
assignment at the
end of the course.
Tell us when you
feel ready to take
the exam and we'll

send you the
assignment
questions. Study
material The study
material will be
provided in
separate files by
email / download
link.

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programmable DSP
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satellite, Angara-A5
rocket, James Webb
Space telescope,
Starlink satellites,
CSIR's Mechanized
Scavenging System,
NASA's DART
spacecraft, etc.
Wings of Fire Springer
Nature
The laws of
thermodynamics—and
their implications for
architecture—have not
been fully integrated
into architectural
design. Architecture
and building science
too often remain
constrained by linear
concepts and
methodologies
regarding energy that
occlude significant
quantities and
qualities of energy.

The Hierarchy of Energy
in Architecture
addresses this
situation by providing
a clear overview of
what energy is and
what architects can do
with it. Building on
the emergy method
pioneered by systems
ecologist Howard T.
Odum, the authors
situate the energy
practices of
architecture within
the hierarchies of
energy and the
thermodynamics of the
large, non-
equilibrium, non-
linear energy systems
that drive buildings,
cities, the planet and
universe. Part of the
PocketArchitecture
series, the book is
divided into a
fundamentals section,
which introduces key
topics and the emergy
methodology, and an
applications section,
which features case

studies applying energy ical introduction to
to various kinematics and fine
architectural systems. motion planning;
The book provides a dynam- ics and
concise but rigorous exposure to the system control of
boundaries of the kinematically
energy systems related redundant robot
to buildings and as arms including
such will appeal to snake-like robots,
professional multi-fingered
architects and robotic hands;
architecture students. methods of non-
Modern Processor holonomic motion
Design Springer planning for space
Science & Business robots,
Media multifingered robot
This IMA Volume in hands and mobile
Mathematics and its robots; new
Applications ESSAYS techniques in
ON MATHEMATICAL analytical
ROBOTICS is based mechanics for
on the proceedings writing the
of a workshop that dynamics of com-
was an integral plicated multi-body
part of the 1992-93 systems subject to
IMA program on constraints on
"Control Theory." angular momentum or
The workshop other non-holonomic
featured a mathemat

constraints. In addition to papers representing proceedings of the Workshop, this volume contains several longer papers surveying developments of the intervening years. We thank John Baillieul, Shankar S. Sastry, and Hector J. Sussmann for organizing the workshop and editing the proceedings. We also take this opportunity to thank the National Science Foundation and the Army Research Office, whose financial support made the workshop possible. Avner Friedman

Willard Miller, Jr.
Bioinspired Engineering of Thermal Materials
Springer
This book examines the challenge of accelerating automation, and argues that countering and adapting to this challenge requires new methodological, philosophical, scientific, sociological, economic, ethical, and political perspectives that fundamentally rethink the categories of work and education. What is required is political will and social vision to respond to the

question: What is the role of education in a digital age characterized by potential mass technological unemployment? Today's technologies are beginning to cost more jobs than they create - and this trend will continue. There have been many proposed solutions to this problem, and they invariably involve an educational vision. Yet, in a world that simply doesn't offer enough work for everyone, education is clearly not a panacea for

technological unemployment. This collection presents responses to this question from a wide spectrum of disciplines, including but not limited to education studies, philosophy, history, politics, sociology, psychology, and economics.

Utilizing Blockchain Technologies in Manufacturing and Logistics Management

Waveland Press

A comprehensive overview and summary of recent achievements and the latest trends in bioinspired thermal materials. Following an introduction to different thermal materials and their effective heat

transfer to other materials, the text discusses heat detection materials that are inspired by biological systems, such as fire beetles and butterflies. There then follow descriptions of materials with thermal management functionality, including those for evaporation and condensation, heat transfer and thermal insulation materials, as modeled on snake skins, polar bears and fire-resistant trees. A discussion of thermoresponsive materials with thermally switchable surfaces and controllable nanochannels as well as those with high thermal conductivity and piezoelectric sensors is rounded off by a look toward

future trends in the bioinspired engineering of thermal materials. Straightforward and well structured, this is an essential reference for newcomers as well as experienced researchers in this exciting field. Smart Cities Springer Science & Business Media INTELLIGENT RENEWABLE ENERGY SYSTEMS This collection of papers on artificial intelligence and other methods for improving renewable energy systems, written by industry experts, is a reflection of the state of the art, a must-have for engineers, maintenance

personnel, students, systems employed with and anyone else recent artificial wanting to stay intelligence (AI) and abreast with current optimization energy systems techniques for concepts and performance technology. Renewable enhancement. Current energy is one of the renewable energy most important sources have less subjects being power conversion studied, researched, efficiency because of and advanced in its intermittent and today's world. From a fluctuating behavior. macro level, like the Therefore, in this stabilization of the regard, the recent AI entire world's and optimization economy, to the micro techniques are able level, like how you to deal with data are going to heat or ambiguity, noise, cool your home imprecision, and tonight, energy, nonlinear behavior of specifically renewable energy sources more renewable energy, is efficiently compared on the forefront of to classical soft the discussion. This computing techniques. book illustrates This book provides an modelling, extensive analysis of simulation, design recent state of the and control of art AI and renewable energy

optimization
techniques applied to
green energy systems.
Subsequently,
researchers, industry
persons,
undergraduate and
graduate students
involved in green
energy will greatly
benefit from this
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a must-have for any
library. Audience
Engineers,
scientists, managers,
researchers,
students, and other
professionals working
in the field of
renewable energy.