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## LUCIANA HESTER

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### **Sustainable Construction and Building Materials** Springer Nature

This book gathers the proceedings of the 1st Global Civil Engineering Conference, GCEC 2017, held in Kuala Lumpur, Malaysia, on July 25–28, 2017. It highlights how state-of-the-art techniques and tools in various disciplines of Civil Engineering are being applied to solve real-world problems. The book presents interdisciplinary research, experimental and/or theoretical studies yielding new

insights that will advance civil engineering methods. The scope of the book spans the following areas: Structural, Water Resources, Geotechnical, Construction, Transportation Engineering and Geospatial Engineering applications.

*Transforming a University* Springer Nature  
What is it like to be born into an extended Peranakan family that has seen better days? Besides poverty, there's strife when some don't pull together. However, I had a wise Grandma, Dad, and Aunt. Reading transported me into a world of joy, and soon I loved learning for its own sake. The Scriptures challenged me to seek the kingdom of heaven when I was at

university. Why should I teach in Selangor rather than my beloved hometown, Penang? Could I rely on God? On several occasions, I realized that God blessed me just on time! I tried to influence my students to be intrinsically motivated. I tried to nurture a passion for knowledge. Besides teaching, I researched to facilitate the learning of my students. How could I manage caring for an aging aunt, but by God's mercy? How would I cope with my health issues, uncertain if healing would come? Would all the events, and my responses to them, show that I worship an all-powerful, merciful God in whom I can trust?

**One Semester of Elliptic Curves** John Wiley & Sons

One could make the claim that all branches of physics are basically generalizations of classical mechanics. It is also often the first course which is taught to physics students. The approach of this book is to construct an intermediate discipline between general courses of physics and analytical mechanics, using more sophisticated mathematical tools. The aim of this book is to prepare a self-consistent and compact text that is very useful for teachers as well as for independent study.

*HSC Studies of Religion Complete Course Notes* Springer Nature

This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in

construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

*Recent Trends in Civil Engineering* Grin Publishing

This book provides an overview of state-of-the-art methods in computational engineering for modeling and simulation. This proceedings volume includes a selection of refereed papers presented at the International Conference on Advances in Computational Mechanics (ACOME) 2017, which took place on Phu Quoc Island, Vietnam on August 2-4, 2017. The contributions highlight recent advances in and innovative applications of computational mechanics. Subjects covered include: biological systems; damage, fracture and failure; flow problems; multiscale multiphysics problems; composites and hybrid structures; optimization and inverse problems; lightweight structures;

computational mechatronics; computational dynamics; numerical methods; and high-performance computing. The book is intended for academics, including graduate students and experienced researchers interested in state-of-the-art computational methods for solving challenging problems in engineering.

**Lecture notes series** Springer Nature

CONTENTS: Preface; A Bit of Quantum Mechanics; Operators in Hilbert Spaces; Spectral Theorem for Self-adjoint Operators; Compact Operators and the Hilbert-Schmidt Theorem; Elements of Perturbation Theory; Variational Principles; One-Dimensional Schrödinger Operator; Multidimensional Schrödinger Operator; Periodic Schrödinger Operator; Quantum Graphs; Non-linear Schrödinger Equation; References; Index.

**Magma Redox Geochemistry** World Scientific

This book constitutes the refereed post-conference proceedings of the 9th International Conference on Wireless Internet, WICON 2016, held in Haikou, China, in December 2016. The 30 full and 4 poster papers were selected from 62

submissions and are grouped into the following topics: sensor networks, security, wireless networks, Internet of Things.

*Lecture Notes on Solution Chemistry*  
Springer Nature

This book presents the select proceedings of the International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2020). It provides a comprehensive overview of the various technical challenges faced, their systematic investigation, contemporary developments, and future perspectives in the domain of mechanical engineering. The book covers a wide array of topics including fluid flow techniques, compressible flows, waste management and waste disposal, bio-fuels, renewable energy, cryogenic applications, computing in applied mechanics, product design, dynamics and control of structures, fracture and failure mechanics, solid mechanics, finite element analysis, tribology, nano-mechanics and MEMS, robotics, supply chain management and logistics, intelligent manufacturing system, rapid prototyping and reverse engineering, quality control and reliability, conventional and non-conventional machining, and

ergonomics. This book can be useful for students and researchers interested in mechanical engineering and its allied fields.

*Lecture Notes on Schrödinger Equations*  
Pascal Press

Describes important modelling and computational methods for systems biology research to enable practitioners to select and use the most suitable technique. Systems Biology Modelling and Analysis provides an overview of state-of-the-art techniques and introduces related tools and practices to formalize models and automate reasoning for systems biology. The authors present and compare the main formal methods used in systems biology for modelling biological networks, including discussion of their advantages, drawbacks, and main applications. Each chapter includes an intuitive presentation of the specific formalism, a brief history of the formalism and of its applications in systems biology, a formal description of the formalism and its variants, at least one realistic case study, some applications of formal techniques to validate and make deep analysis of models encoded with the formalism, and a discussion on the kind of

biological systems for which the formalism is suited, along with concrete ideas on its possible evolution. Written by a highly qualified author with significant experience in the field, some of the methods and techniques covered in Systems Biology Modelling and Analysis include: ● Petri nets, an important tool for studying different aspects of biological systems, ranging from simple signaling pathways to metabolic networks and beyond ● Pathway Logic, a formal, rule-based system and interactive viewer for developing executable models of cellular processes ● Boolean networks, a mathematical model which has been widely used for decades in the context of biological regulation networks ● Answer Set Programming (ASP), which has proven to be a strong logic programming paradigm to deal with the inherent complexity of biological models. For systems biologists, biochemists, bioinformaticians, molecular biologists, pharmacologists, and computer scientists, Systems Biology Modelling and Analysis is a comprehensive all-in-one resource to understand and harness the field's current models and techniques while also

preparing for their potential developments in coming years with the help of the author's expert insight.

**Lack of Critical Thinking Ability Among the Primary and High School Students of Bangladesh and Its Effects on Their Tertiary Level Education and Employment Prospects**

John Wiley & Sons

This book is devoted to current problems of artificial and computational intelligence including decision-making systems. Collecting, analysis, and processing information are the current directions of modern computer science. Development of new modern information and computer technologies for data analysis and processing in various fields of data mining and machine learning creates the conditions for increasing effectiveness of the information processing by both the decrease of time and the increase of accuracy of the data processing. The book contains of 54 science papers which include the results of research concerning the current directions in the fields of data mining, machine learning, and decision making. The papers are divided in terms of their topic into three sections. The first

section "Analysis and Modeling of Complex Systems and Processes" contains of 26 papers, and the second section "Theoretical and Applied Aspects of Decision-Making Systems" contains of 13 papers. There are 15 papers in the third section "Computational Intelligence and Inductive Modeling". The book is focused to scientists and developers in the fields of data mining, machine learning and decision-making systems.

*Higher School Certificate Review Lectures*  
Springer

Master's Thesis from the year 2013 in the subject Pedagogy - Common Didactics, Educational Objectives, Methods, language: English, abstract: The topic of concern of the research is the critical thinking ability of the primary and high school students of Bangladesh and its effects on their tertiary level education. In the research, the critical thinking ability of these levels of students was found to be deficient to an extent. The research has found that the recently introduced creative method has proved to be more favorable for developing the critical thinking ability of the students than the previous methods, though the creative

method is struggling for effective implementation for various reasons. For example, the lack of trained teachers, partial knowledge of the students about the creative method and accessibility to guidebooks are contributing to the unsuccessful application of the method. Moreover, the research found out that there is an urge on the part of students for modification of the creative method. Besides, fragmented knowledge on different topics in different classes or grades, lecture-based classes, the tendency of taking down lecture notes in H.S.C and university levels are also responsible for a lack of critical thinking abilities of the students. Furthermore, the tendency of memorizing essays and question- answers has not been lessened as memorized essays and notes carry good marks even in the new system of examination. Indeed, the research findings do agree with the fact that the lack of critical thinking ability among the students of Bangladesh is particularly due to the effects of our education policies, memorizing and passive learning on the part of students on a large scale. Therefore, proper knowledge of and

training in the creative method on the part of both the students and teachers, adequate implementation of the creative method at school and college levels, effective interac

**HSC Year 11 Modern History Complete Course Notes** Sydney University Press

This book presents articles from The Australasian Conference on the Mechanics of Structures and Materials (ACMSM25 held in Brisbane, December 2018), celebrating the 50th anniversary of the conference. First held in Sydney in 1967, it is one of the longest running conferences of its kind, taking place every 2-3 years in Australia or New Zealand. Bringing together international experts and leaders to disseminate recent research findings in the fields of structural mechanics, civil engineering and materials, it offers a forum for participants from around the world to review, discuss and present the latest developments in the broad discipline of mechanics and materials in civil engineering.

**Lecture Notes in Computational Intelligence and Decision Making** Springer

This book highlights the latest knowledge and innovations in the field of civil engineering and construction industry striving for a sustainable built environment. It includes recent innovative findings from the proceedings of the 11th ICSBE 2020 under the themes of sustainable tall buildings, sustainable bridge construction and maintenance, waste in construction industry, sustainable manufacturing and recycling, disaster risk reduction for sustainable built environment, green innovations and entrepreneurship, sustainable water management in developing countries, water pollution and CKDu, sustainable urban environment and social well-being, and many greener and sustainable resource and energy-efficient innovative research findings.

**Systems Biology Modelling and Analysis** Springer Nature

Explores the many facets of redox exchanges that drive magma's behavior and evolution, from the origin of the Earth until today The redox state is one of the master variables behind the Earth's forming processes, which at depth concern magma as the major transport agent.

Understanding redox exchanges in magmas is pivotal for reconstructing the history and compositional make-up of our planet, for exploring its mineral resources, and for monitoring and forecasting volcanic activity. Magma Redox Geochemistry describes the multiple facets of redox reactions in the magmatic realm and presents experimental results, theoretical approaches, and unconventional and novel techniques. Volume highlights include: Redox state and oxygen fugacity: so close, so far Redox processes from Earth's accretion to global geodynamics Redox evolution from the magma source to volcanic emissions Redox characterization of elements and their isotopes The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

**ICSBE 2020** Springer

This study guide to HSC Japanese offers a comprehensive coverage for the entire course from year 11. Includes seven main themes and over 100 pages of HSC type questions.

### HSC Heritage Auctions Manuscripts

#### Auction Catalog #6031 Springer Nature

These lecture notes grew out of a one semester introductory course on elliptic curves given to an audience of computer science and mathematics students, and assume only minimal background knowledge. After having covered basic analytic and algebraic aspects, putting special emphasis on explaining the interplay between algebraic and analytic formulas, they go on to some more specialized topics. These include the  $\zeta$ -function from an algebraic and analytic perspective, a discussion of elliptic curves over finite fields, derivation of recursion formulas for the division polynomials, the algebraic structure of the torsion points of an elliptic curve, complex multiplication, and modular forms. In an effort to motivate basic problems the book starts very slowly but considers some aspects such as modular forms of higher level which are not usually treated. It presents more than 100 exercises and a Mathematica TM notebook that treats a number of calculations involving elliptic curves. The book is aimed at students of mathematics with a general interest in

elliptic curves but also at students of computer science interested in their cryptographic aspects.

#### *Wireless Internet* Springer

This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and professionals working in civil engineering.

*Proceedings of the International Conference on Advances in Computational Mechanics 2017* Heritage Capital

### Corporation

A mathematically consistent formulation of relativistic quantum electrodynamics (QED) has still to be found. Nevertheless, there are several simplified effective models that successfully describe many body quantum systems and the interaction of radiation with matter. Large Coulomb Systems explores a selection of mathematical topics inspired by QED. It comprises selected, expanded and edited lectures given by international experts at a topical summer school.

#### **The Tempest** Springer Science & Business Media

'How beauteous mankind is! O brave new world That has such people in't!'

Performed variously as escapist fantasy, celebratory fiction, and political allegory, *The Tempest* is one of the plays in which Shakespeare's genius as a poetic dramatist found its fullest expression. Significantly, it was placed first when published in the First Folio of 1623, and is now generally seen as the playwright's most penetrating statement about his art. The New Oxford Shakespeare offers authoritative editions of Shakespeare's works with introductory materials

designed to encourage new interpretations of the plays and poems. Using the text from the landmark *The New Oxford Shakespeare Complete Works: Modern Critical Edition*, these volumes offer readers the latest thinking on the authentic texts (collated from all surviving original versions of Shakespeare's work) alongside innovative introductions from leading scholars. The texts are accompanied by a comprehensive set of critical apparatus to give readers the best resources to help understand and enjoy Shakespeare's work. ABOUT THE SERIES: For over 100 years Oxford World's Classics has made available the widest range of literature from around the globe. Each affordable volume reflects Oxford's commitment to scholarship, providing the most accurate text plus a wealth of other valuable features, including expert introductions by leading authorities, helpful notes to clarify the text, up-to-date bibliographies for further study, and much more.

Superconductivity: From Basic Physics to

the Latest Developments World Scientific  
 This book emphasises those features in solution chemistry which are difficult to measure, but essential for the understanding of both the qualitative and the quantitative aspects. Attention is paid to the mutual influences between solute and solvent, even at extremely small concentrations of the former. The described extension of the molecular concept leads to a broad view — not by a change in paradigm — but by finding the rules for the organizations both at the molecular and the supermolecular level of liquid and solid solutions.  
 Contents: Development and Present State  
 Atoms and Molecules  
 Chemical Bonding  
 Interactions between Molecules  
 The Liquid State  
 Anomalous Physical Properties of Liquid Water  
 Some Trivia about Water  
 The Phase Boundary of Liquid Water  
 Water in Biological Systems  
 Hydrophobic Solutes in Water  
 Hydrophilic Solutes in Water  
 Water and Alcohols  
 Characterization of Non-

Aqueous Solvents  
 Solvation in Non-Aqueous Solvents  
 Ionization and Association in Non-Aqueous Solutions  
 Qualitative Aspects of the Molecular Concept  
 System Organization of Liquid Water  
 Changes in Organization of Liquid Water  
 Water within the Human Body  
 Organization in Non-Aqueous Solutions: Intramolecular System Organizations  
 Readership: Students and scientists in chemistry, physics, biology, pharmacy and medicine.  
 keywords: Solution Chemistry; Supermole; Liquid State; Hydrophobic Solutes; Hydrophilic Solutes; Ionization; Pharmacology; Liquid Properties; Solvents; Solvation  
 "Wherever possible, the authors have tried to make the text readable by using interesting illustrations to explain the relevance of the concepts that they describe ... this book will be excellent supplementary reading for undergraduates and will also be good preliminary background reading for researchers new to the area." *Chemistry in Britain*