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### **Understand Structural Analysis: (Types of Structures)**

Lecture 2 | Module 1 | Indeterminacy | Structural Analysis

This book presents 25 selected papers from the International Conference on “Developing Synergies between Islam & Science and Technology for Mankind’s Benefit” held at the International Institute for Advanced Islamic Studies Malaysia, Kuala Lumpur, in October 2014. The papers cover a broad range of issues reflecting the main conference themes: Cosmology and the Universe, Philosophy of Science and the Emergence of Biological Systems, Principles and Applications of Tawhidic Science, Medical Applications of Tawhidic Science and Bioethics, and the History and Teaching of Science from an Islamic Perspective. Highlighting the relationships between the Islamic religious worldview and the physical sciences, the book challenges secularist paradigms on the study of Science and Technology. Integrating metaphysical perspectives of Science, topics include Islamic approaches to S&T such as an Islamic epistemology of the philosophy of science, a new quantum theory, environmental care, avoiding wasteful consumption using Islamic teachings, and emotional-blasting psychological therapy. Eminent contributing scholars include Osman Bakar, Mohammad Hashim Kamali, Mehdi Golshani, Mohd. Kamal Hassan, Adi Setia and Malik Badri. The book is essential reading for a broad group of academics and practitioners, from Islamic scholars and social scientists to (physical) scientists and engineers.

This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of research into the field. Different failure mechanisms such as corrosion, fatigue, and wear will be reviewed, together with experimental techniques for monitoring them, either in vitro or in vivo. Procedures for implant retrieval and analysis will be presented. A variety of biomaterials (stainless steels, titanium and its alloys, nitinol, magnesium alloys, polyethylene, biodegradable polymers, silicone gel, hydrogels, calcium phosphates) and medical devices (orthopedic and dental implants, stents, heart valves, breast implants) will be analyzed in detail. The book will serve as a broad reference source for graduate students and researchers studying biomedicine, corrosion, surface science, and electrochemistry.

This book covers the latest in recycling and reuse research focused toward greater sustainability and includes chapters authored by the world’s leading thinkers and practitioners in the field. Topics covered include recycling and reuse, solid waste management, renewable energy, environmental studies, and wastewater management. This text contains environmental issues with an experimental focus, making this a useful resource to students, researchers, and professionals working in solid waste management, energy and water sustainability issues within the geoscience, engineering, and chemistry fields.

The two volumes of this book collect high-quality peer-reviewed research papers presented in the International Conference on ICT for Sustainable Development (ICT4SD 2015) held at Ahmedabad, India during 3 – 4 July 2015. The book discusses all areas of Information and Communication Technologies and its applications in field for engineering and management. The main focus of the volumes are on applications of ICT for Infrastructure, e-Governance, and contemporary technologies advancements on Data Mining, Security, Computer Graphics, etc. The objective of this International Conference is to provide an opportunity for the researchers, academicians, industry persons and students to interact and exchange ideas, experience and expertise in the current trend and strategies for Information and Communication Technologies.

The second edition of OCT and Imaging in Central Nervous System Diseases offers updated state-of-the-art advances using optical coherence tomography (OCT) regrading neuronal loss within the retina. Detailed information on the OCT imaging and interpretation is provided for the evaluation of disease progression in numerous neurodegenerative disorders and as a biological marker of neuroaxonal injury. Covering disorders like multiple sclerosis, Parkinson’s disease, Alzheimer’s disease, intracranial hypertension, Friedreich’s ataxia, schizophrenia, hereditary optic neuropathies, glaucoma, and amblyopia, readers will given insights into effects on the retina and the and optic nerve. Individual chapters are also devoted to OCT technique, new OCT technology in neuro-ophthalmology, OCT and pharmacological treatment, and the use of OCT in animal models. Similar to the first edition, this book is an excellent and richly illustrated reference for diagnosis of many retinal diseases and monitoring of surgical and medical treatment. OCT allows to study vision from of the retina to the optic tracts. Retinal axons in the retinal nerve fiber layer (RNFL) are non-myelinated until they penetrate the lamina cribrosa. Hence, the RNFL is an ideal structure for visualization of any process of neurodegeneration, neuroprotection, or regeneration. By documenting the ability of OCT to provide key information on CNS diseases, this book illustrates convincingly that the eye is indeed the “window to the brain”.

Arabic Information Retrieval reviews Arabic IR including the nature of the Arabic language, the techniques used for pre-processing the language, the latest research in Arabic IR in different domains, and the open areas in Arabic IR.

*Bemisia tabaci* (Gennadius) has distinguished itself from the more than 1,000 whitefly species in the world by its adaptability, persistence and potential to damage a wide range of agricultural and horticultural crops in all six of the world's inhabited continents. *B. tabaci* inflicts plant damage through direct feeding, inducement of plant disorders, vectoring of plant viruses and excretion of honeydew. This book collates multiple aspects of the pest ranging from basic to applied science and molecular to landscape levels of investigation. Experts in multiple disciplines provide broad, but detailed summaries and discussion of taxonomy, genetics, anatomy, morphology, physiology, behavior, ecology, symbiotic relationships, virus vector associations and various tactics for integrated management of this pest insect. The book is focused primarily on progress during the last 10-15 years and is directed at workers in the field as well as the informed professional who may not necessarily specialize in whitefly research. The book is unique in providing broad coverage in relatively few chapters by recognized experts that highlight the state-of-the-art in our understanding of this fascinating but troublesome cosmopolitan pest.

This book provides an overview of the practice of Islamic finance and the historical roots that define its modes of operation. The focus of the book is analytical and forward-looking. It shows that Islamic finance exists mainly as a form of rent-seeking legal-arbitrage. In every aspect of finance - from personal loans to investment banking, and from market structure to corporate governance - Islamic finance aims to replicate in Islamic forms the substantive functions of contemporary financial instruments, markets, and institutions. By attempting to replicate the substance of contemporary financial practice using pre-modern contract forms, Islamic finance has arguably failed to serve the objectives of Islamic law. This book proposes refocusing Islamic finance on substance rather than form. This approach would entail abandoning the paradigm of 'Islamization' of every financial practice. It would also entail reorienting the brand-name of Islamic finance to emphasize issues of community banking, micro-finance, and socially responsible investment.

During the last few years, nanomaterials have attracted the attention of the scientific community due to their extraordinary and unique properties. Their small size, and the distinctive features that come with it, makes these materials very attractive for use in different important fields like biomedicine, sensors, or catalysis. One of the most important properties of these materials is their interaction with light and is called surface plasmon resonance. It is a phenomenon that happens on the surface of certain nanomaterials that confers them with unique properties. This remarkable characteristic has opened a whole new field called nanoplasmonics that is acquiring more and more importance among the scientific community. This book aims to review the state of the art in this new field and provide the reader with a wide overview of the new nanomaterials available and their current and future applications.

This book is written for scientists and engineers who use HHT (Hilbert–Huang Transform) to analyze data from nonlinear and non-stationary processes. It can be treated as a HHT user manual and a source of reference for HHT applications. The book contains the basic principle and method of HHT and various application examples, ranging from the correction of satellite orbit drifting to detection of failure of highway bridges. The thirteen chapters of the first edition are based on the presentations made at a mini-symposium at the Society for Industrial and Applied Mathematics in 2003. Some outstanding mathematical research problems regarding HHT development are discussed in the first three chapters. The three new chapters of the second edition reflect the latest HHT development, including ensemble empirical mode decomposition (EEMD) and modified EMD. The book also provides a platform for researchers to develop the HHT method further and to identify more applications. Contents: Introduction to the Hilbert–Huang Transform and Its Related Mathematical Problems Ensemble Empirical Mode Decomposition and Its Multi-Dimensional Extensions Multivariate Extensions of Empirical Mode Decomposition B-Spline Based Empirical Mode Decomposition EMD Equivalent Filter Banks, From Interpretation to Applications HHT Sifting and Filtering Statistical Significance Test of Intrinsic Mode Functions The Time-Dependent Intrinsic Correlation The Application of Hilbert–Huang Transforms to Meteorological Datasets Empirical Mode Decomposition and Climate Variability EMD Correction of Orbital Drift Artifacts in Satellite Data Stream HHT Analysis of the Nonlinear and Non-Stationary Annual Cycle of Daily Surface Air Temperature Data Hilbert Spectra of Nonlinear Ocean Waves EMD and Instantaneous Phase Detection of Structural Damage HHT-Based Bridge Structural Health-Monitoring Method Applications of HHT in Image Analysis Readership: Applied mathematicians, climate scientists, highway engineers, medical scientists, geologists, civil engineers, mechanical engineers, electrical engineers, economics and graduate students in science or engineering. Keywords: Hilbert–Huang Transform; Empirical Mode Decomposition; Intrinsic Mode Function; Hilbert Spectral Analysis; Time-Frequency Analysis Key Features: A tool book for analyzing nonlinear and non-stationary data A source book for HHT development and applications The most complete reference for HHT method and applications

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