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Surendra Singh (Author of Engineering Materials)

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Building Materials and Construction covers the detailed discussion on materials required for building construction along with construction methodology and will be useful for students and teachers as well as for architects and practicing civil engineers. The book will cater to their needs at every stage, i.e., from initial planning to selection of construction materials, construction practices, and even the post-construction stage. Apart from covering the traditional materials and construction details, the book also contains many latest and contemporary topics including newer and advanced materials such as composites, geosynthetics, recycled aggregate, paper as building material, bacterial concrete, nano concrete, geopolymer concrete and more. Salient Features : - Covers both building materials and construction practices in one volume. - Extensive coverage of traditional and modern building materials and construction practices. - Excellent pedagogy. • Figures: 227 • Tables: 117 • Review Questions: 449 • Multiple-Choice Questions: 250.

Silicon Anode Systems for Lithium-Ion Batteries is an introduction to silicon anodes as an alternative to traditional graphite-based anodes. The book provides a comprehensive overview including abundance, system voltage, and capacity. It provides key insights into the basic challenges faced by the materials system such as new configurations and concepts for overcoming the expansion and contraction related problems. This book has been written for the practitioner, researcher or developer of commercial technologies. Provides a thorough explanation of the advantages, challenge, materials science, and commercial prospects of silicon and related anode materials for lithium-ion batteries Provides insights into practical issues including processing and performance of advanced Si-based materials in battery-relevant materials systems Discusses suppressants in electrolytes to minimize adverse effects of solid electrolyte interphase (SEI) formation and safety limitations associated with this technology

Global plastic production is estimated to be over 300Mt annually. Most conventional plastics are predominantly produced from fossil fuels and are highly resistant to biodegradation, and only a small share of about 20% of spent plastics is believed to be recycled, which is a cause for environmental concern. Biodegradable plastics would solve this concern as they are a sustainable alternative, yet these do not even cover 5% of the global plastic market. Microbial polyhydroxyalkanoates (PHAs) are a versatile group of polyesters produced by nature as prokaryotic storage materials. PHAs can be produced through sustainable bioprocess engineering and have displayed remarkable flexibility in their physical and chemical properties. PHAs are the subject of several scientific papers and numerous PHA patents have also been filed, generating significant interest in the plastic production industry. To develop overall sustainable and efficient production processes, all bioprocess steps need to be thoroughly understood and accounted for. These processes start with the selection of suitable inexpensive raw materials (microbes and enzymes), optimizing the process engineering and process regime, and conclude with the enhancement of product recovery in terms of time, energy, and material input. Microbial Biopolyester Production, Performance and Processing: Bioengineering, Characterization, and Sustainability is a compilation of eight chapters covering bacterial polyesters, green plastics and PHAs from various angles. The contents of this volume focus on sustainable practices focus on the sustainability of processes that involve the synthesis and recycling of these materials. The volume is a useful resource for bioprocess engineers, microbiologists, biotechnologists and chemical engineers interested in the basics of biodegradable plastic production.

Water Conservation and Wastewater Treatment in BRICS Nations: Technologies, Challenges, Strategies, and Policies addresses issues of water resources—including combined sewer system overflows—assessing effects on water quality standards and protecting surface and sub-surface potable water from the intrusion of saline water due to sea level rise. The book's chapters incorporate both policies and practical aspects and serve as baseline information for future adaption plans in BRICS nations. Users will find detailed important information that is ideal for policymakers, water management specialists, BRICS nation undergraduate or university students, teachers and researchers. Presents tools and techniques that can be used to preserve water resources, including groundwater and surface water Provides geophysical methods to quantitatively monitor physical earth processes associated with water resources, such as contaminant transport and ecological and climate change investigations and monitoring Includes desalination techniques which can solve the issue of scarce drinking water

This book discusses the properties, characterization procedures, and analysis techniques of various structural materials. It presents the latest design considerations and uses of engineering materials as well as theories for fully understanding them through numerous worked mathematical examples. The book gradually builds the concept of materials and the principles of material classifications and their response to different physical disturbances, and finally, about the selection methods based upon the test results of the standard methods to choose appropriate materials for various engineering applications. The principles and related theories predicting the response of different structural materials are introduced in a concise and logical manner. A number of illustrations and examples are also given in all chapters for the help of potential readers. The book will be useful for practicing engineers, researchers, and students in the area of civil engineering, especially structural engineering and allied fields.

The first decade of 21st century witnessed several changes, world wide, in technology management, restructuring and down sizing global trade and competition, international quality standards, information exchange, lean manufacturing and virtual enterprises etc. In this age of globalization, the survival of any industry mainly depends on its cost of production and quality of its products. With the rapid growth of competition and shrinking product life cycle value engineering has become an essential tool for attaining a competitive edge. This volume provides a logistic view of value engineering. The chapters written by experts in their respective fields are organized into different sections covering. Basic concepts of value engineering Information Technology and Value Engineering Systems Situational Case Studies / Industrial Examples Role of value engineering in profit improvement and effectiveness.

In recent decades the development of unsaturated soil mechanics has been remarkable, resulting in momentous advances in fundamental knowledge, testing techniques, computational procedures, prediction methodologies and geotechnical practice. The advances have spanned the full spectrum of theory and practice. In addition, unsaturated materials exhibiting complex behaviour such as residual soils, swelling soils, compacted soils, collapsing soils, tropical soils and solid wastes have been integrated in a common understanding of shared behaviour features. It is also noteworthy that unsaturated soil mechanics has proved surprisingly fruitful in expanding to other neighbouring areas such as swelling rocks, rockfill mechanics, and freezing soils. As a consequence, geotechnical engineering involving unsaturated soils can be now approached from a more rational and systematic perspective leading towards an improved and more effective practice. Unsaturated Soils contains the papers presented at the 5th International Conference on Unsaturated Soil (Barcelona, Spain, 6-8 September 2010). They report significant advances in the areas of unsaturated soil behaviour, testing techniques, constitutive and numerical modelling and applications. The areas of application include soil-atmosphere interaction, foundations, slopes, embankments, pavements, geoenviromental problems and emerging topics. They are complemented by three keynote lectures and three general reports covering general issues of modelling, testing and applications. Unsaturated Soils is a comprehensive record of the state-of-the art in unsaturated soil mechanics and a sound basis for further progress in the future. The two volumes will serve as an essential reference for academics, researchers and practitioners interested in unsaturated soils.

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