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**Waste Valorisation and Recycling** Sadhan Kumar Ghosh 2019-01-29 This book gathers high-quality research papers presented at the Seventh International Conference on Solid Waste Management, held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15-17, 2017. The Conference, IconSWM 2017, is as an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific. As a pre-event, it also aims to generate scientific inputs to the policy consultations at the Eighth Regional 3R Forum co-organised by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. At the IconSWM 2017, researchers from more than 30 countries presented their work on Solid Waste Management. Divided into three volumes, this book shares their papers, which address various issues related to innovation and implementation in sustainable waste management, segregation, collection and transportation of waste, treatment technologies, policies and strategies, energy recovery, life cycle analysis, climate change, and research and business opportunities. *Recent Advances in Civil Engineering* Pala Gireesh Kumar 2022-05-13 The book presents the select proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021). This book discusses the latest developments and contributions towards sustainable construction technologies and advances in civil engineering. Various topics covered in this book are construction technologies, geotechnical engineering, transportation and traffic engineering, structural engineering, environmental engineering, remote sensing and GIS, geo-environmental engineering, water resources engineering and earthquake engineering. This book will be useful for students, researchers and professionals working in the area of civil engineering.

**Biofuels and Bioenergy** Gurunathan Baskar 2021-10-17 Biofuels and Bioenergy: Opportunities and Challenges is the first of two volumes that address the technological developments and challenges in the production of a broad range of biofuels and bioenergy products from renewable feedstock. The book emphasizes the opportunities and challenges involved in various processes including fermentation, transesterification, microbial fuels cells, liquefaction, gasification, and pyrolysis. These are also considered from a biorefinery perspective and discuss all common biomass feedstocks. In addition, the book presents new research on microalgae from waste water treatment, large scale production of microalgae, microbial biooil production, biogas production, computational tools for manipulation of metabolic pathway for enhanced biogas production, production of biofuel from genetically modified microalgal biomass, techno-economic analysis, environmental impact and life cycle analysis. Biofuels and Bioenergy is an ideal reference on the latest research for researchers and students working in the area of biofuels and renewable energy.

Addresses biological and chemical methods of biofuel and bioenergy production Provides industry case studies alongside in-depth techno-economic analysis, environmental impact, and life cycle assessment of biofuels production Focuses on the commercial viability of production processes

**Advances in Civil Engineering Materials** Mokhtar Awang 2022 This book presents selected articles from the 5th International Conference on Architecture and Civil Engineering 2021, held in Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and addresses current issues in the fields of civil engineering and architecture.

**Clean Energy and Resource Recovery** Vinay Kumar Tyagi 2021-11-10 Clean Energy and Resource Recovery: Wastewater Treatment Plants as Bio-refineries, Volume 2, summarizes the fundamentals of various treatment modes applied to the recovery of energy and value-added products from wastewater treatment plants. The book addresses the production of biofuel, heat, and electricity, chemicals, feed, and other products from municipal wastewater, industrial wastewater, and sludge. It intends to provide the readers an account of up-to-date information on the recovery of biofuels and other value-added products using conventional and advanced technological developments.

The book starts with identifying the key problems of the sectors and then provides solutions to them with step-by-step guidance on the implementation of processes and procedures. Titles compiled in this book further explore related issues like the safe disposal of leftovers, from a local to global scale. Finally, the book sheds light on how wastewater treatment facilities reduce stress on energy systems, decrease air and water pollution, build resiliency, and drive local economic activity. As a compliment to Volume 1: Biomass Waste Based Biorefineries, Clean Energy and Resource Recovery, Volume 2: Wastewater Treatment Plants as Bio-refineries is a comprehensive reference on all aspects of energy and resource recovery from wastewater. The book is going to be a handy reference tool for energy researchers, environmental scientists, and civil, chemical, and municipal engineers interested in waste-to-energy. Offers a comprehensive overview of the fundamental treatments and methods used in the recovery of energy and value-added products from wastewater. Identifies solutions to key problems related to wastewater to energy/resource recovery through conventional and advanced technologies and explore the alternatives. Provides step-by-step guidance on procedures and calculations from practical field data. Includes successful case studies from both developing and developed countries.

**Sustainable Building Materials and Construction** B. Kondraivendhan 2022-05-13 This book presents the select proceedings of the International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), and examines a range of durable, energy-efficient, advance construction and building materials produced from industrial wastes and byproducts. The topics covered include advanced construction materials, durability of concrete structures, waste utilization, repair & rehabilitation of concrete structures, structural analysis & design, composites, nanomaterials and smart materials in seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes including their strength, durability, workability, and carbon footprint. This book will be a precious reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

**Proceedings of the Fifth International Conference of Transportation Research Group of India** Akhilesh Kumar Maurya 2022-03-05 This book (in three volumes) comprises the proceedings of the Fifth Conference of Transportation Research Group of India (CTRG2019) focusing on emerging opportunities and challenges in the field of transportation of people and freight. The contents of the volume include characterization of conventional and innovative pavement materials, operational effects of road geometry, user impact of multimodal transport projects, spatial analysis of travel patterns, socio-economic impacts of transport projects, analysis of transportation policy and planning for safety and security, technology enabled models of mobility services, etc. This book will be beneficial to researchers, educators, practitioners and policy makers alike.

**Mineral Exploration** K. Srinivasamoorthy 2007 Key Lectures \*Strategy for Exploration and Exploitation of Placer Mineral in India: G.V.Rajamanickam \*Exploration for Platinum Group Elements in Peninsular India Status Problems & Scope: Balaram \*Understanding the Ore Forming Processes Key to Mineral Exploration: M.S.Pandian \*Hyperspectral Remote Sensing: S.Sanjeevi \*Total Quality Management (T.q.m.) in Evaluation of Granite Deposits: G.B.Sukumaran

**JPSC Mains Assistant Engineer Section-I (Objective Papers) for Civil Engineering with Previous Year Questiona** onlineverdan This Book is designed for Civil Engineering aspirants those are appearing in Mains Exam of JPSC (Jharkhand Public Service Commission) Assistant Engineer. It covers complete syllabus of Section-I (Objective Papers) of JPSC Mains by dividing it in three parts; Civil Engineering Paper-I, Civil Engineering Paper-II and General Ability according to the Exam pattern. The Book not only consists major subjects of Civil Engineering, like SOM, TOS, Building Materials, RCC, Steel, Soil, Environment, FM, Machines, Highways, but also, includes minor subjects, such as Railway and Airport, Docks and Harbour, etc. Even, in the Book, the General Ability part is also classified in sub-parts of General English, Indian History, Polity, Economy, Geography, General Science and in most important Current Affairs. The Book also includes questions of Previous Year JPSC Mains Exam. There are a total of 4100+ questions in the Book published in more than 600 Pages. Due to its exam oriented pattern, we hope, this Book will fulfill all needs of aspirants of JPSC Mains.

**Advanced Technology for the Conversion of Waste into Fuels and Chemicals** Anish Khan 2021-07-27 Advanced Technology for the Conversion of Waste into Fuels and Chemicals: Volume 1: Biological Processes presents advanced and combined techniques that can be used to convert waste to energy, including combustion, gasification, paralysis, anaerobic digestion and fermentation. The book focuses on solid waste conversion to fuel and energy and presents the latest advances in the design, manufacture, and application of conversion technologies. Contributors from the fields of physics, chemistry, metallurgy, engineering and manufacturing present a truly trans-disciplinary picture of the field. Chapters cover important aspects surrounding the conversion of solid waste into fuel and chemicals, describing how valuable energy can be recouped from various waste materials. As huge volumes of solid waste are produced globally while huge amounts of energy are produced from fossil fuels, the technologies described in this comprehensive book provide the information necessary to pursue clean, sustainable power from waste material. Presents the latest advances in waste to energy techniques for converting solid waste to valuable fuel and energy Brings together contributors from physics, chemistry, metallurgy, engineering and the manufacturing industry Includes advanced techniques such as combustion, gasification, paralysis, anaerobic digestion and fermentation Goes far beyond municipal waste, including discussions on recouping valuable energy from a variety of industrial waste materials Describes how waste to energy technologies present an enormous opportunity for clean, sustainable energy

**Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—GEO-TRA-ENV-WRM** B. B. Das 2022-04-06 This book includes selected papers from the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI-2020) and consists of themes pertaining to geotechnical engineering, transportation engineering, environmental engineering and water resources management.

*Report of the Highway Engineer* Oregon. State Highway Department 1914

**Highway Engineering** Professor T.D. Ahuja 2015-07-15 **ABOUT THE BOOK:** After the First World War the importance of highways was felt and realized. The concept of highway engineering has changed during the last two decades. The thumb rule concept has become a thing of the past. With the increasing importance of highways for the prosperity and integrity of the country and with the increasing cost of construction and maintenance of highways, the trend of construction, planning and designing has also changed. The Central Road Research Institute and P.W.D. research centers all over the country have contributed a lot in the design, planning road user safety, construction and economy etc. The present work is the outcome of author’s long association with the subject as a teacher and as a student. Efforts have been made to present the subject matter in a very lucid and comprehensive manner. The author does not claim any originality but sufficient pains have been taken in compiling the work by consulting important works and Road Research Journals. The subject matter is presented from the introduction so that the book may prove useful to diploma and degree students as well as practising engineers. The book presents acceptable theory and construction practices. Important topics such as bituminous roads, stabilized earth roads, traffic engineering, pavement design and highway planning and economics have been comprehensively dealt. Hill Roads including construction and layout of tunnels have been given special emphasis. Airport engineering, though it is not a part of highway engineering, has also been touched so as to introduce the subject matter. I take this opportunity to express my gratitude to Padamshri R.S. Gahlowt, Chairman and Managing Director (Retd). Hindustan Steel Co. Ltd. for his valuable guidance, help and blessings and my friend and colleague Shri G.S. Birdie, Consulting Engineer for the preparation of a large number of drawings and consultations. Any suggestion for the improvement of the book in the forthcoming editions will be thankfully acknowledged and welcomed. For errors or omissions and constructive criticism from the readers and users are welcome. Allahabad T.D. AHUJA 2011 **OUTSTANDING FEATURES:** -Various designs of the Highway Engineering are based on the latest IS Codes. -Several empirical methods of estimating. Evapotranspiration such as modified penman method, hargreaves methods, modified blaney criddle method, etc., are discussed. -Treatment of earthquake forces acting on gravity dams is thoroughly explained. -Detailed discussion regarding the provision of water stops at the contraction joints in gravity dams as per IS Codes is made. -Some aspects of financial analysis of a project are discussed with planning for water resources development. -Number of design problems have been solved in details. -Subject matter is supported by very good diagrams and illustrative examples. -A large number of multiple choice questions with answers are given. **RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations in S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers **ABOUT THE AUTHOR:** Professor T.D. Ahuja (Director) Institute of Engineering and Rural Technology, Allahabad **PUBLISHED BY:** STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies

**Advances in Geotechnical and Transportation Engineering** Sireesh Saride 2020-04-09 This book presents the selected peer-reviewed papers from the national conference Futuristic Approaches in Civil Engineering (FACE) 2019. This volume focuses on latest research and challenges in the field of geotechnical, transportation, environmental and water resources engineering. The first part focuses on alternative and sustainable pavement materials, maintenance and rehabilitation of roads, transportation planning, traffic engineering, hybrid vehicles, safety management, and intelligent transport systems. In the second part of the book, basic and advanced research in geotechnical engineering which can provide sustainable solutions to practical problems in foundations, retaining structures, soil dynamics, site characterization, slope stability, dams, rock engineering, environmental geotechnics, and geosynthetics are covered. The third part of the book includes current research in environment, and water resources engineering. The contents of this book will be useful for students, researchers as well as industry professionals.

**Recent Advances in Materials and Modern Manufacturing** I. A. Palani

**Post Treatments of Anaerobically Treated Effluents** Vinay Kumar Tyagi 2019-06-15 The anaerobic process is considered to be a sustainable technology for organic waste treatment mainly due to its lower energy consumption and production of residual solids coupled with the prospect of energy recovery from the biogas generated. However, the anaerobic process cannot be seen as providing the ‘complete’ solution as its treated effluents would typically not meet the desired discharge limits in terms of residual carbon, nutrients and pathogens. This has given impetus to subsequent post treatment in order to meet the environmental legislations and protect the receiving water bodies and environment. This book discusses anaerobic treatment from the perspective of organic wastes and wastewaters (municipal and industrial) followed by various post-treatment options for anaerobic effluent polishing and resource recovery. Coverage will also be from the perspective of future trends and thoughts on anaerobic technologies being able to support meeting the increasingly stringent disposal standards. The resource recovery angle is particularly interesting as this can arguably help achieve the circular economy. It is intended the information can be used to identify appropriate solutions for anaerobic effluent treatment and possible alternative approaches to the commonly applied post-treatment techniques. The succeeding discussion is intended to lead on to identification of opportunities for further research and development. This book can be used as a standard reference book and textbook in universities for Master and Doctoral students. The academic community relevant to the subject, namely faculty, researchers, scientists, and practicing engineers, will find the book both informative and as a useful source of successful case studies.

**Sustainable Practices and Innovations in Civil Engineering** S. Ramanagopal 2020-08-28 This book presents the select proceedings of the International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE 2019). The chapters discuss emerging and current research in sustainability in different areas of civil engineering, which aim to provide solutions to sustainable development. The contents are broadly divided into the following six categories: (i) structural systems, (ii) environment and water resource systems, (iii) construction technologies, (iv)geotechnical systems, (v) innovative building materials, and (vi) transportation. This book will be of potential interest for students, researchers, and practitioners working in sustainable civil engineering related fields.

**Advances in Sustainable Materials and Resilient Infrastructure** Krishna R. Reddy 2022-03-12 The edited book comprises invited book chapter contributions from global experts in the field of sustainable materials and resilient infrastructure. The book covers the most critical and emerging topics for creating sustainable solutions for the construction industry, promoting the technologies and monitoring methods for resilient infrastructure. It focuses on sustainable solutions and offers techniques and methodologies to deliver high-quality end solutions in civil engineering. In addition, the content provides knowledge-based information for the readers to assess, monitor, measure, and practice sustainability for resilient infrastructure. The contents of the volume are a blend of academic research work and industrial case studies. It covers the use of sustainable materials like Lime-Pozzolona Binders, biopolymers, lignosulphonate, lightweight aggregates made from fly ash, calcinated clay, paper ash, and limestone as amendments/ameliorators for soil remediation, development of neo-construction materials and composites for civil engineering applications. Design of innovative pavements using alkali activation and pervious concrete for sustainable infrastructure is also discussed. The chapters also highlight the role of civil engineers in achieving UN Sustainable Development Goals, promoting climate change design for urban landscapes, and modelling building energy demand. This book is framed to address the principles and practice from the corners of geoenvironment, sustainable construction materials, low carbon materials, energy efficiency, and waste management. It is a valuable reference for faculty, researchers, field experts, scientists, and practicing engineers.

**Highway Engineer and Contractor.....** 1920

**Groundwater Assessment, Modeling, and Management** M. Thangarajan 2016-09-15 Your Guide to Effective Groundwater Management Groundwater Assessment, Modeling, and Management discusses a variety of groundwater problems and outlines the solutions needed to sustain surface and ground water resources on a global scale. Contributors from around the world lend their expertise and provide an international perspective on groundwater management. They address the management of groundwater resources and pollution, waste water treatment methods, and the impact of climate change on groundwater and water availability (specifically in arid and semi-arid regions such as India and Africa). Incorporating management with science and modeling, the book covers all areas of groundwater resource assessment, modeling, and management, and combines hands-on applications with relevant theory. For Water Resource Managers and Decision Makers The book describes techniques for the assessment of groundwater potential, pollution, prevention, and remedial measures, and includes a new approach for groundwater modeling based on connections (network theory). Approximately 30 case studies and six hypothetical studies are introduced reflecting a range of themes that include: groundwater basics and the derivation of groundwater flow equations, exploration and assessment, aquifer parameterization, augmentation of aquifer, water and environment, water and agriculture, the role of models and their application, and water management policies and issues. The book describes remote sensing (RS) applications, geographical information systems (GIS), and electrical resistivity methods to delineate groundwater potential zones. It also takes a look at: Inverse modeling (pilot-points method) Simulation optimization models Radionuclide migration studies through mass transport modeling Modeling for mapping groundwater potential Modeling for vertical 2-D and 3-D groundwater flow Groundwater Assessment, Modeling, and Management explores the management of water resources and the impact of climate change on groundwater. Expert contributors provide practical information on hydrologic engineering and groundwater resources management for students, researchers, scientists, and other practicing professionals in environmental engineering, hydrogeology, irrigation, geophysics, and environmental science.

**Legacy and Emerging Contaminants in Water and Wastewater** Paromita Chakraborty

**Antibiotics and Antibiotics Resistance Genes in Soils** Muhammad Zaffar Hashmi 2017-11-03 This book summarizes the current state of knowledge regarding antibiotics and antibiotics resistance genes (ARGs) in the soil

environment. It covers a wide range of topics to help readers understand antibiotics and ARGs in soils, the risks they pose for the environment, and options for effective control. In addition, it presents a range of essential tools and methodologies that can be used to address antibiotics and ARGs in a consistent, efficient, and cost-effective manner. Gathering contributions by international experts, the book addresses both theoretical aspects and practical applications. The topics discussed include antibiotics-producing microorganisms; the routes of entry and fate of antibiotics and resistance genes; biomonitoring approaches; dissemination of ARGs in soils; risk assessment; the impact of antibiotics and ARGs on the soil microbial community and other biota; bioremediation and biodegradation approaches; and soil management strategies for antibiotics and ARG-contaminated soils. As such, the book will be of interest to students, researchers and scholars in environmental science and engineering, toxicology, the medical and pharmaceutical sciences, environmental biotechnology, soil sciences, microbial ecology and plant biotechnology. Readers and Journals: 1. This new volume on antibiotics and antibiotics resistance genes (ARGs) in the soil environment will be of interest to students, researchers and scholars in environmental science and engineering, toxicology, the medical and pharmaceutical sciences, environmental biotechnology, soil sciences, microbial ecology and plant biotechnology. 2. The book will provide government authorities all over the world with effective strategies for the management of antibiotics and antibiotics resistance genes (ARG)-contaminated soil. 3. Gathering contributions by international experts, the book addresses both theoretical aspects and practical applications.

*Recent Advances in Civil Engineering* Lakshman Nandagiri

**Sustainable Practices and Innovations in Civil Engineering** Sivakumar Naganathan

**3rd EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing** Anandakumar Haldorai 2022-01-01 This book features the proceedings of The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing (BDCC 2020), which took place 18 – 19 December 2020. The papers feature detail on cognitive computing and its self-learning systems that use data mining, pattern recognition and natural language processing (NLP) to mirror the way the human brain works. This international conference focuses on technologies from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches. Topics covered include Data Science for Cognitive Analysis, Real-Time Ubiquitous Data Science, Platform for Privacy Preserving Data Science, and Internet-Based Cognitive Platform.

**Engineering Mechanics (For Anna)** S. Rajasekaran & G. Sankarasubramanian Mechanics is the fundamental branch of physics whose two offshoots, static and dynamics, find varied application in thermodynamics, electricity and electromagnetism. Engineering Mechanics is a simple yet insightful textbook on the concepts and principles of mechanics in the field of engineering. Written in a comprehensive manner, Engineering Mechanics greatly elaborates on the tricky aspects of the motion of particle and its cause, forces and vectors, lifting machines and pulleys, inertia and projectiles, juxtaposition them with relevant, neat illustrations, which make the science of engineering mechanics an interesting study for aspiring engineers. The authors have packaged the book, Engineering Mechanics, with a huge number of theoretical questions, numerical problems and a highly informative objective-type question bank. The book aspires to cater to the learning needs of BE/BTech students and also those preparing for competitive exams.

**Engineering Interventions in Sustainable Trickle Irrigation** Megh R. Goyal 2018-05-04 Improving agricultural water use efficiency (WUE) is vitally important in many parts of the world due to the decreasing availability of water resources and the increasing competition for water between different users. Micro irrigation is an effective tool for conserving water resources. Studies have revealed a significant water savings, ranging from 40% to 70% under drip irrigation compared with surface irrigation. This new volume, Engineering Interventions in Sustainable Trickle Irrigation: Irrigation Requirements and Uniformity, Fertigation, and Crop Performance, presents valuable research that evaluates crop water and fertigation requirements, examines optimum irrigation and fertigation scheduling, and analyzes the performance of agricultural crops under micro irrigation. With an interdisciplinary perspective, this volume addresses the urgent need to explore and investigate the current shortcomings and challenges of water resources engineering, especially in micro irrigation engineering. The volume discusses crop water requirements, fertigation technology, and performance of agricultural crops under best management practices. The chapter authors present research studies on drip irrigated tomato, chilies, cucumber, eggplant, cabbage, garlic, sugarcane maize, cashew nut, sapota, banana, mango, and blueberries. Removing the research gap, this volume provides new information that will be valuable to those involved in micro irrigation engineering.

**Zero Waste Biorefinery** Yogalakshmi Kadapakkam Nandabalan 2022-01-12 This book is a compilation of process, technologies and value added products such as high value biochemicals and biofuels produced from different waste biorefineries. The book is sectioned into four categories providing a comprehensive outlook about zero waste biorefinery and technologies associated with it. The emerging technologies that potentially put back the lignocellulosic waste, municipal solid waste and food waste into intrinsic recycling for production of high value biochemicals and bioenergy, along with associated challenges and opportunities are also included. The content also focuses on algal biorefineries leading to sustainable circular economy through production of broad spectrum of bioactive compounds, bioethanol, biobutanol, biohydrogen, biodiesel through integrated biorefinery approach. The volume also includes chapters on conversion technologies and mathematical models applied for process optimization. A sound foundation about the underlying principles of biorefineries and a up-to-date state-of-the-art based overview on the latest advances in terms of scientific knowledge, techno-economic developments and life cycle assessment methodologies of integrated waste biorefinery is provided. This volume will be of great interest to professionals, post-graduate students and policy makers involved in waste management, biorefineries, circular economy and sustainable development.

**Biorefineries: A Step Towards Renewable and Clean Energy** Pradeep Verma 2021-01-04 This book provides a comprehensive account of past, present and future of the biomass based biorefineries. It is an all-inclusive and

insightful compilation of recent advancements in the technology and methods used for conversion of biomass to bioenergy and other useful biochemicals. The book also focuses on the limitations of existing technologies and provides the future prospects, as well as discusses socio-economic impact of biomass based biorefineries. This book assists researchers in the area of lignocellulosic biorefineries and can be used by the students, scientist and academician as an advanced reference textbook.

**Biodegradation and Detoxification of Micropollutants in Industrial Wastewater** Izharul Haq 2022-05-02 Biodegradation and Detoxification of Micropollutants in Industrial Wastewater summarizes the occurrence and source of micropollutants through various industrial wastewaters. It covers the type of micropollutants, their effects, and emerging detection and treatment methods. The book has 11 chapters, and throughout each chapter, it presents the fate and effects of micropollutants, quantitative and qualitative analysis of micropollutants in industrial wastewaters, and treatment of micropollutants through conventional and advanced wastewater treatment technologies. Presents detailed information on the micropollutants of industrial wastewaters and their origins Assesses the toxic effect these micropollutants have on living organisms Evaluates emerging treatment technologies for the removal of micropollutants Includes molecular biology, nanotechnology and microbiology approaches for the management of micropollutants in industrial wastewaters

**India II: Climate Change Impacts, Mitigation and Adaptation in Developing Countries** Md. Nazrul Islam

**Symposium on Modern Trends in Civil Engineering** 1972

**Emerging Trends in Science, Engineering and Technology** S Sathiyamoorthy 2012-12-14 The present book is based on the research papers presented in the International Conference on Emerging Trends in Science, Engineering and Technology 2012, held at Tiruchirappalli, India. The papers presented bridges the gap between science, engineering and technology. This book covers a variety of topics, including mechanical, production, aeronautical, material science, energy, civil and environmental energy, scientific management, etc. The prime objective of the book is to fully integrate the scientific contributions from academicians, industrialists and research scholars.

**Proceedings of International Conference on Innovative Technologies for Clean and Sustainable Development (ICITCSD – 2021)** Varinder S. Kanwar

**Principles, Practice and Design of Highway Engineering** Sharma S.K. 2014 For B.E./B.Tech. & M.E/ M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers

**Resilient Infrastructure** Sreevalsa Kolathayar 2021-10-28 This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction (VCDRR 2021). This book discusses various relevant topics such as Disaster resilience and Infrastructure, Risk reduction and structural measures, Evidence based approach for DRR Case studies, Numerical modelling and Constructions methods, Prevention Methods and Safety Engineering, Cross cutting issue in DRR and Infrastructure etc. The book is also a comprehensive volume on multi-hazards and their management for a sustainable built environment. This book will be useful for academicians, research scholars and industry professionals working in the area of civil engineering and disaster management.

**Impact of COVID-19 on Emerging Contaminants** Manish Kumar

**Sustainable Waste Management: Policies and Case Studies** Sadhan Kumar Ghosh 2019-06-21 The book presents high-quality research papers from the Seventh International Conference on Solid Waste Management (IconSWM 2017), held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15–17, 2017. The conference, an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific, aimed to generate scientific inputs into the policy consultation of the Forum co-organized by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. Presenting research on solid waste management from more than 30 countries, the book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle analysis, climate change, research and business opportunities.

**Recent Advancements in Geotechnical Engineering** B. Soundara 2021-10-15 Geotechnical engineering has become an important discipline of civil engineering due to its rapid advancements and environmental challenges. Special emphasis is placed on innovative materials in the fields of geotechnical engineering, pavement engineering, health monitoring of structures and sustainability. Keywords: Green Building Materials, Cement Based Materials, Concrete Applications, Photocatalytic Effect on Paver Blocks, Stabilization of Black Cotton Soil, Concrete Filled Steel Tube Columns, Cenosphere, Fly Ash Brick, Stone Columns, Reinforced Concrete Beams, Interlocking Masonry Units, Lightweight Filler Materials, Soil Stabilization Using Fibres, Friction Stir Welding of Aluminum and Magnesium.

**Advances in Civil Engineering and Infrastructural Development** Laxmikant Madanmanohar Gupta 2020-11-13 This book comprises selected proceedings of the International Conference on Recent Advancements in Civil Engineering and Infrastructural Developments (ICRACEID 2019). The contents are broadly divided into five areas (i) smart transportation with urban planning, (ii) clean energy and environment, (iii) water distribution and waste management, (iv) smart materials and structures, and (v) disaster management. The book aims to provide solutions to global challenges using innovative and emerging technologies covering various fields of civil engineering. The major topics covered include urban planning, transportation, water distribution, waste management, disaster management, environmental pollution and control, environmental impact assessment, application of GIS and remote sensing, and structural analysis and design. Given the range of topics discussed, the book will be beneficial for students, researchers as well industry professionals.