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2024-25SSC JE Civil Engineering

Gully Erosion Studies from India and Surrounding Regions

Results of the Astronomical Observations

Recent Trends in Transportation Infrastructure, Volume 1

Recent Advances in Traffic Engineering

Geotechnics for Natural Disaster Mitigation and Management

Recent Advances in Transportation Systems Engineering and Management

Ground Improvement and Reinforced Soil Structures

Environmental Management and Sustainability in India

Transportation Research

Proceedings of the Fifth International Conference of Transportation Research Group of India

Handbook of Project Management and Safety

Recent Trends in Construction Technology and Management

Geotechnics for Transportation Infrastructure

Recent Developments in Geotechnics and Structural Engineering

Low Volume Roads Construction and Maintenance (a Working Manual)

Disturbing Geomorphology by Transportation Infrastructure

Transportation, Water and Environmental Geotechnics

Advancement in the Design and Performance of Sustainable Asphalt Pavements

Greenwich Observations in Astronomy and Magnetism Made at the Royal

Observatory, Greenwich, the Royal Greenwich Observatory, Herstmonceux and the

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Trends in Civil Engineering and Challenges for Sustainability

Astronomical and Magnetical and Meteorological Observations Made at the Royal

Observatory, Greenwich, in the Year ...

Astronomical Observations

Advances in Construction Materials and Sustainable Environment

Advances in Structural Mechanics and Applications

Ground Improvement Techniques

Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements

Proceedings of SECON 2020

PRINCIPLES OF TRANSPORTATION ENGINEERING

TRANSPORTATION ENGINEERING

Advances in Computer Methods and Geomechanics

Advances in Geoengineering along the Belt and Road

Recent Advances in Civil Engineering for Sustainable Communities  
Advances in River Corridor Research and Applications  
Astronomical Results from Observations Made at the Royal Observatory, Greenwich,  
in the Year ...  
Masonry Arch Bridges  
Soil Behavior and Characterization of Geomaterials  
BITUMINOUS ROAD CONSTRUCTION IN INDIA, SECOND EDITION  
4th fib Congress in Mumbai India

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## **DULCE BURGESS**

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2024-25SSC JE Civil Engineering KHANNA  
PUBLISHING

This book comprises the select peer-reviewed proceedings of the Indian Geotechnical Conference (IGC) 2021. The contents focus on Geotechnics for Infrastructure Development and

Innovative Applications. The book covers topics related to soil behavior and characterization of geomaterials, geotechnical, geological, and geophysical investigation of special topics such as behavior of unsaturated soils, offshore and marine geotechnics, remote sensing and GIS, instrumentation and monitoring, retrofitting of geotechnical structures, reliability in geotechnical engineering, geotechnical

education, codes and standards, among others. This volume will be of interest to those in academia and industry.

**Gully Erosion Studies from India and Surrounding Regions** Springer

The proceedings of the conference is going to benefit the researchers, academicians, students and professionals in getting enlightened on latest technologies on structural mechanics, structure and infrastructure engineering. Further, work on practical applications of developed scientific methodologies to civil structural engineering will make the proceedings more interesting and useful to practicing engineers and structural designers.

*Results of the Astronomical Observations*  
Springer Nature

India's Transport System has several

deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas. The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career.

Recent Trends in Transportation Infrastructure, Volume 1 Springer Nature

This book is a compilation of selected papers from the 1st Belt and Road Webinar Series on Geotechnics, Energy

and Environment, March - May 2021. The book comprises selected research related to advances in geo-environmental engineering. Topics covered include rock mechanics, sustainable materials, frozen soils, geotechnical innovations in megacities. The research is related to the sustainable infrastructure development for countries in China's Belt and Road Initiative. The contents of the volume will prove useful to researchers and professionals working in geotechnical and geological engineering domains.

*Recent Advances in Traffic Engineering*  
Springer Nature

This book presents selected papers from the 4th Conference of the Transportation Research Group of India. It provides a comprehensive analysis of themes

spanning the field of transportation encompassing economics, financial management, social equity, green technologies, operations research, big data analysis, econometrics and structural mechanics. This volume will be of interest to researchers, educators, practitioners, managers, and policy-makers world-wide.

Geotechnics for Natural Disaster Mitigation and Management PHI Learning Pvt. Ltd.

This volume comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2020. The contents focus on recent developments in geotechnical engineering for sustainable tomorrow. The volume covers the topics related advances in ground improvement of weak foundation soils

for various civil engineering projects and design/construction of reinforced soil structures with different fill materials using synthetic and natural reinforcements in different forms.

Recent Advances in Transportation

Systems Engineering and Management

YOUTH COMPETITION TIMES

This book focuses on a significant branch of anthropogeomorphology, which is not adequately studied: the impact of transportation systems on altering earth surface processes and landforms. This book fills the gap with in-depth study on the interaction between individual modes of transport network (e.g., trail, roads, railways, waterways, airports, and tunnel) and surface hydro-geomorphology with intensive literature review, fieldwork, geo-environmental

modelling, mapping, case studies, and examples from different parts of the world. On the one hand, this book also addresses the vulnerability of transport networks from climate change and critical geo-hazards like floods, landslides, etc. with case studies from the high-risk zones of India. Overall, this book promotes peaceful harmony between the transport network and its surrounding landscapes as an essential lesson for policymakers, planners, and stakeholders.

*Ground Improvement and Reinforced Soil Structures* Springer Nature

This book presents select proceedings of the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2022). It focuses on the latest research developments in

structural engineering, structural health monitoring, rehabilitation and retrofitting of structures, geotechnical engineering, and earthquake-resistant structures. The book also covers the latest innovations in building repair and maintenance, AI and blockchain in structural engineering, advancements in the design of earthquake-resistant structures, and sustainable materials for rehabilitation and retrofitting. The contents of this book are useful for researchers and professionals working in structural and geotechnical engineering and allied areas.

Environmental Management and Sustainability in India Springer Nature Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements contains 124 papers from 14

different countries which were presented at the 5th International Symposium on Frontiers of Road and Airport Engineering (IFRAE 2021, Delft, the Netherlands, 12-14 July 2021). The contributions focus on research in the areas of "Circular, Sustainable and Smart Airport and Highway Pavement" and collects the state-of-the-art and state-of-practice areas of long-life and circular materials for sustainable, cost-effective smart airport and highway pavement design and construction. The main areas covered by the book include: • Green and sustainable pavement materials • Recycling technology • Warm & cold mix asphalt materials • Functional pavement design • Self-healing pavement materials • Eco-efficiency pavement materials • Pavement preservation,

maintenance and rehabilitation • Smart pavement materials and structures • Safety technology for smart roads • Pavement monitoring and big data analysis • Role of transportation engineering in future pavements Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements aims at researchers, practitioners, and administrators interested in new materials and innovative technologies for achieving sustainable and renewable pavement materials and design methods, and for those involved or working in the broader field of pavement engineering. *Transportation Research* Springer Nature This book is designed to serve as a comprehensive text for undergraduate as well as first-year master's students of

civil engineering in India. Now, in the second edition, the book incorporates a thorough revision and extension of topics covered in the previous edition. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems. SALIENT FEATURES OF THE BOOK • Analysis of characteristics of vehicles and drivers that affect traffic and design of traffic facilities. • Principles of road geometry design and how to lay a road. • Characterization and analysis of flows on highways, unsignalized and signalized intersections, toll plazas, etc. • Design principles for traffic facilities. • Engineering characteristics of pavement materials. • Structural analysis and design of highway pavements. • Principles of pavement design with



special reference to the Indian conditions. • Evaluation and maintenance of highways. HIGHLIGHTS OF THE SECOND EDITION • Incorporates the latest and up-to-date information on the topics covered. • Includes a large number of figures, tables, worked-out examples, and exercises highlighting practical engineering design problems. • Elaborates text by introducing new sections on Continuum Models of Traffic Flow, Traffic Flow at Toll Plazas, Determination of Critical Gap, Occlusion of Signs, Fleet Allocation, Vehicle and Crew Assignment, Elastic Solution of Layered Structures, Analysis of Concrete Pavement Structures, Functional Evaluation of Pavements, Highway Economics and Finance, etc. in respective chapters.

Proceedings of the Fifth International Conference of Transportation Research Group of India Springer Nature

This book presents the select proceedings of the International Conference on Advances in Construction Technology and Management (ACTM 2021) and explores recent and innovative developments in all aspects of civil engineering. Advanced construction technologies such as 3D printing, intelligently built environment, use of artificial intelligence, smart structures, green buildings, advanced and engineered materials for producing green concrete, and many more such topics are covered in this book. The advanced management tools such as building information modeling, augmented reality, advanced task

management software, and one of the most recent technological advancements are drones, which are changing the face of surveying and security are also explored. This book will be useful for researchers, academicians, and practitioners working in the area of civil engineering and allied fields.

**Handbook of Project Management and Safety** Springer Nature

Masonry arch bridges are an important part of the British road and rail network. There are for instance, about 40,000 road bridges, about 40% of Britain's total bridge stock. The amount of traffic they are now called on to carry has increased enormously since they were built, as has the weight of some of that traffic. Although these bridges have been in existence for thousands of years,

research on their structural behaviour is still being carried out and new analytical techniques are being developed.

*Recent Trends in Construction*

*Technology and Management* Springer Nature

This volume presents recent advances and developments taking place in geotechnical aspects of natural disaster mitigation and management. The chapters of this book are based on the invited lectures delivered by eminent researchers at the Third Indo-Japan Workshop on Geotechnics for Natural Disaster Mitigation and Management. This book will be a useful reference for academicians, researchers, practicing professionals and, especially, students of the geotechnical fraternity.

Geotechnics for Transportation

Infrastructure Springer Nature

This book presents the select proceedings of the 2nd International Conference on Transportation Infrastructure Projects: Conception to Execution (TIPCE 2022) and emphasizes the understanding of transportation infrastructure projects being conceptualized, designed, and executed so as to bring the desired development in the focused area. It comprises case studies from the transportation sector, construction industries, consulting agencies, and academia. These studies present the bottlenecks experienced during the implementation of the projects, from their conceptualization to their execution and the corrective measures that were incorporated to finish the work. The book will be a

valuable reference for beginners, researchers, and professionals interested in construction planning and technology, infrastructure engineering, highway engineering, traffic and transportation planning and systems.

**Recent Developments in Geotechnics and Structural Engineering** Springer Nature

This book comprises select peer-reviewed proceedings of the National Conference on Recent Advances in Traffic Engineering (RATE 2022). The contents includes in-depth insights into the domain of traffic engineering and planning and presents the latest advancements by focusing on traffic engineering, traffic flow, road safety, advanced techniques for transportation surveys, and data collection. It covers

topics including travel demand modeling and transportation planning issues. The contents of this book offer up-to-date and practical knowledge on different aspects of traffic engineering. It will be useful for researchers as well as practitioners.

Low Volume Roads Construction and Maintenance (a Working Manual)

Springer Nature

This book offers the scientific basis for the ample evaluation of badland management in India and some surrounding regions. It examines the processes operating in the headwaters and main channels of ephemeral rivers in lateritic environments of India. In particular, the book covers a range of vital topics in the areas of gully erosion and water to soil erosion at lateritic

uplands regions of India and other regions in Asia. It explores the probable gully erosion modeling through Remote Sensing & GIS Techniques. It is divided into three units. Unit I deals with the introduction of badland, types of badland and the process of badland formation. Unit II is devoted to a description of quantitative measurements. Unit III deals with the control and management processes related to various issues from different regions. As such this book serves as a reference book for research activities in this area. It is an efficient guide for aspiring researchers in applied geography, explaining advanced techniques to help students recognize both simple and complex concepts.

*Disturbing Geomorphology by  
Transportation Infrastructure* Springer

### Nature

This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and geographical information systems. With a special emphasis on sustainable development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering.

### **Transportation, Water and**

### **Environmental Geotechnics** PHI

Learning Pvt. Ltd.

This book gathers peer-reviewed contributions presented at the 1st International Conference on Structural Engineering and Construction Management (SECON'20), held in Angamaly, Kerala, India, on 14-15 May 2020. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical

project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

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Springer

2024-25SSC JE Civil Engineering Study  
Material

Advancement in the Design and  
Performance of Sustainable Asphalt  
Pavements Springer Nature

This book presents selected papers from

the International Symposium on Geotechnics for Transportation Infrastructure (ISGTI 2018). The research papers cover geotechnical interventions for the diverse fields of policy formulation, design, implementation, operation and management of the different modes of travel, namely road, air, rail and waterways. This book will be of interest to academic and industry researchers working in transportation geotechnics, as also to practicing engineers, policy makers, and civil agencies.