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Advances in Road Infrastructure and Mobility - International Road Federation. World Meeting and Exhibition 2022

This volume focuses on recent advances in the planning, design, construction and management of new and existing roads with a particular focus on safety, sustainability and resilience. It discusses field experience through case studies and pilots presented by leading international subject-matter specialists. Chapters were selected from the 18th International Road Federation World Meeting & Exhibition, Dubai 2021.

District Heating and Cooling Networks - Antonio Colmenar Santos 2020-05-12

Conventional thermal power generating plants reject a large amount of energy every year. If this rejected heat were to be used through district heating networks, given prior energy valorisation, there would be a

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noticeable decrease in the amount of fossil fuels imported for heating. As a consequence, benefits would be experienced in the form of an increase in energy efficiency, an improvement in energy security, and a minimisation of emitted greenhouse gases. Given that heat demand is not expected to decrease significantly in the medium term, district heating networks show the greatest potential for the development of cogeneration. Due to their cost competitiveness, flexibility in terms of the ability to use renewable energy resources (such as geothermal or solar thermal) and fossil fuels (more specifically the residual heat from combustion), and the fact that, in some cases, losses to a country/region’s energy balance can be easily integrated into district heating networks (which would not be the case in a “fully electric” future), district heating (and cooling) networks and cogeneration could become a key element for a future with greater energy security, while being more sustainable, if appropriate measures were implemented. This book therefore seeks to propose an energy strategy for a number of cities/regions/countries by proposing appropriate measures supported by detailed case studies.

Advances in Environmental Engineering - Adriana Estokova 2018-08-09

This book is a printed edition of the Special Issue "Advances in Environmental Engineering" that was published in Environments

Improved Mix Design, Evaluation, and Materials Management Practices for Hot Mix Asphalt with High Reclaimed Asphalt Pavement Content - Randy Clark West 2013

TRB's National Cooperative Highway Research Program (NCHRP) Report 752: Improved Mix Design, Evaluation, and Materials Management Practices for Hot Mix Asphalt with High Reclaimed Asphalt Pavement Content describes proposed revisions to the American

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Association of State Highway and Transportation Officials (AASHTO) R 35, Superpave Volumetric Design for Hot Mix Asphalt, and AASHTO M 323, Superpave Volumetric Mix Design, to accommodate the design of asphalt mixtures with high reclaimed asphalt pavement contents.

Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering - Kim, Dookie 2018-06-15

The disciplines of science and engineering rely heavily on the forecasting of prospective constraints for concepts that have not yet been proven to exist, especially in areas such as artificial intelligence. Obtaining quality solutions to the problems presented becomes increasingly difficult due to the number of steps required to sift through the possible solutions, and the ability to solve such problems relies on the recognition of patterns and the categorization of data into specific sets. Predictive modeling and optimization methods allow unknown events to be categorized based on statistics and classifiers input by researchers. The Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering is a critical reference source that provides comprehensive information on the use of optimization techniques and predictive models to solve real-life engineering and science problems. Through discussions on techniques such as robust design optimization, water level prediction, and the prediction of human actions, this publication identifies solutions to developing problems and new solutions for existing problems, making this publication a valuable resource for engineers, researchers, graduate students, and other professionals.

Global Jihadist Terrorism - Paul Burke 2021-04-30

This insightful book provides a unified repository of information on jihadist terrorism. Offering an integrated treatment of

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terrorist groups, zones of armed conflict and counter-terrorism responses from liberal democratic states, it presents fresh empirical perspectives on the origins and progression of conflict, and contemporary global measures to combat terrorist activity.

Proceedings of the 5th International Symposium on Asphalt Pavements & Environment (APE) - Marco Pasetto 2019-08-29

This volume highlights the latest advances, innovations, and applications in the field of asphalt pavement technology, as presented by leading international researchers and engineers at the 5th International Symposium on Asphalt Pavements & Environment (ISAP 2019 APE Symposium), held in Padua, Italy on September 11-13, 2019. It covers a diverse range of topics concerning materials and technologies for asphalt pavements, designed for sustainability and environmental compatibility: sustainable pavement materials, marginal materials for asphalt pavements, pavement structures, testing methods and performance, maintenance and management methods, urban heat island mitigation, energy harvesting, and Life Cycle Assessment. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.

Proceedings of the 12th National Technical Seminar on Unmanned System Technology 2020 - Khalid Isa 2021-09-24

This book comprises the proceedings of the 12th National Technical Symposium on Unmanned System Technology 2020 (NUSYS'20) held on October 27–28, 2020. It covers a number of topics, including intelligent robotics, novel sensor technology, control algorithms, acoustics signal processing, imaging techniques, biomimetic robots, green energy sources, and underwater communication

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backbones and protocols, and it appeals to researchers developing marine technology solutions and policy-makers interested in technologies to facilitate the exploration of coastal and oceanic regions.

The Spectrum of Addiction - Laura J. Veach 2017-10-20

Reflecting the latest content in the DSM–5, The Spectrum of Addiction: Evidence-Based Assessment, Prevention, and Treatment Across the Lifespan presents a comprehensive overview of addictive behaviors and habits from early use through risky use, severe-risk use, and addiction. Authors Laura Veach and Regina Moro draw from their experience in both teaching and counseling to provide real-world knowledge and evidence-based practices for working with clients who fall within the spectrum of addiction ranging from experimentation to physical addiction and recovery. With a unique focus on neuroscience, integration of CACREP standards, and extensive coverage of addictions across the lifespan, the book serves as a practical resource for future addiction counselors.

Law, Space, and the Vehicular Environment - Sarah Marusek 2022-11-15

This book examines the paved road as a liminal space and legal frontier for enlivened, everyday struggles over property, power, and place/definition. Through pavement itself and the pavement-based practices of pavementalities and pavementeering, the road is legally framed as a place for movement. Paved terrain is a site of dynamism between law and place that engenders the road as legal metaphor by calling forth the kinetic notion of jurisprudence in which law can be understood through the fluidity of everyday life. In Western (and particularly American) society, roads are a material locus of governance, in which rights of way are determined, communicated, and enforced. However, roads also constitute a site of resistance or disruption, beyond regulation. Addressing

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phenomena such as travel, political protest, public memory, and community governance, this book explores the paved medium of asphalt as a complex surface for legality that constitutively frames order against disorder involving jurisdiction tensions, property ownership, and cultural identities in vehicular environments. The target audience of this book are those students and scholars who consider how law works in society, whether through frameworks of (auto) mobility and legal geography or through the interdisciplinary approaches of legal semiotics, legal culture, and/or new materialism.

Australian Guidebook for Structural Engineers - Lonnie Pack 2017-07-28

This guidebook is a practical and essential tool providing everything necessary for structural design engineers to create detailed and accurate calculations. Basic information is provided for steel, concrete and geotechnical design in accordance with Australian and international standards. Detailed design items are also provided, especially relevant to the mining and oil and gas industries. Examples include pipe supports, lifting analysis and dynamic machine foundation design. Steel theory is presented with information on fabrication, transportation and costing, along with member, connection, and anchor design. Concrete design includes information on construction costs, as well as detailed calculations ranging from a simple beam design to the manual production of circular column interaction diagrams. For geotechnics, simple guidance is given on the manual production and code compliance of calculations for items such as pad footings, piles, retaining walls, and slabs. Each chapter also includes recommended drafting details to aid in the creation of design drawings. More generally, highly useful aids for design engineers include section calculations and force diagrams. Capacity tables cover real-world items

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such as various slab thicknesses with a range of reinforcing options, commonly used steel sections, and lifting lug capacities. Calculations are given for wind, seismic, vehicular, piping, and other loads. User guides are included for Space Gass and Strand7, including a non-linear analysis example for lifting lug design. Users are also directed to popular vendor catalogues to acquire commonly used items, such as steel sections, handrails, grating, grouts and lifting devices. This guidebook supports practicing engineers in the development of detailed designs and refinement of their engineering skill and knowledge.

Q & A Revision Guide International Law 2013 and 2014 - Susan Breau 2013-01-31 Q&A International Law offers a lifeline to students revising for exams. It provides clear guidance from an experienced examiner on how best to tackle exam questions, and gives students the opportunity to practise their exam technique and assess their progress.

Federal Register - 2013-05

Composite Pavement Systems - Shreenath P. Rao 2013 Experimental composite pavements were constructed at MnROAD in Minnesota and the University of California Pavement Research Center at Davis, where the pavements were instrumented and monitored under climate and heavy traffic loadings. A composite pavement consisting of HMA over jointed plain concrete also was constructed in the field by the Illinois Tollway north of Chicago. At the Tollway, extensive field surveys were performed on 64 sections of the two types of composite pavements. This project also evaluated, improved, and further validated applicable structural, climatic, material, and performance prediction models, and design algorithms that are included in the AASHTO MEPDG and DARWin-ME, CalME, NCHRP 1-41 reflection cracking, NCHRP 9-30A rutting, and the Lattice bonding model. The current

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DARWin-ME overlay design procedure for HMA/PCC and a special R21 version of the Mechanistic-Empirical Pavement Design Guide (MEPDG [v.

Asphalt Pavement Repair Manuals of Practice - Kelly L. Smith 1993

This publication contains two pavement maintenance manuals intended for use by highway maintenance agenices and contracted maintenance firms in the field and in the office. Each is a compendium of good practices for asphalt concrete crack sealing and filling and pothole repair, respectively, stemming from two Strategic Highway Research Program studies.

Practices for Unbound Aggregate Pavement Layers - E. Tutumluer 2013

"TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 445: Practices for Unbound Aggregate Pavement Layers consolidates information on the state-of-the-art and state-of-the-practice of designing and constructing unbound aggregate pavement layers. The report summarizes effective practices related to material selection, design, and construction of unbound aggregate layers to potentially improve pavement performance and longevity."--Publisher website.

Integrated Materials and Construction Practices for Concrete Pavement - 2006

Manual of integrated material and construction practices for concrete pavements.

The Roman Villa in the Mediterranean Basin - Annalisa Marzano 2018-04-30

This volume offers a comprehensive survey of Roman villas in Italy and the Mediterranean provinces of the Roman Empire, from their origins to the collapse of the Empire. The architecture of villas could be humble or grand, and sometimes luxurious. Villas were most often farms where wine, olive oil, cereals, and manufactured goods, among other products, were produced. They were also venues for hospitality, conversation, and thinking on

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pagan, and ultimately Christian, themes. Villas spread as the Empire grew. Like towns and cities, they became the means of power and assimilation, just as infrastructure, such as aqueducts and bridges, was transforming the Mediterranean into a Roman sea. The distinctive Roman/Italian villa type was transferred to the provinces, resulting in Mediterranean-wide culture of rural dwelling and work that further unified the Empire.

Predicting the Initial Retroreflectivity of Pavement Markings from Glass Bead Quality - Omar Smadi 2013

The report describes a laboratory test method to predict the initial retroreflectivity of pavement markings in the field based on the quality of the applied glass beads.

Pavement Engineering - Rajib B. Mallick 2017-10-16

Pavement Engineering will cover the entire range of pavement construction, from soil preparation to structural design and life-cycle costing and analysis. It will link the concepts of mix and structural design, while also placing emphasis on pavement evaluation and rehabilitation techniques. State-of-the-art content will introduce the latest concepts and techniques, including ground-penetrating radar and seismic testing. This new edition will be fully updated, and add a new chapter on systems approaches to pavement engineering, with an emphasis on sustainability, as well as all new downloadable models and simulations.

Evaluating Pavement Strategies and Barriers for Noise Mitigation - Paul R. Donavan 2013

"TRB's National Cooperative Highway Research Program (NCHRP) Report 738: Evaluating Pavement Strategies and Barriers for Noise Mitigation presents a methodology for evaluating feasibility, reasonableness, effectiveness, acoustic longevity, and economic features of pavement strategies

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and barriers for noise mitigation. The methodology uses a life-cycle cost analysis to examine the economic features of mitigation alternatives, the FHWA Traffic Noise Model to integrate the noise reduction performance of pavements and barriers, and on-board sound intensity measurements as an input to the prediction model. The appendixes contained in the research agency's final report provide elaborations and detail on several aspects of the research. The appendixes are not included with the print version of the report, but are available online." --Publisher description.

Precast Concrete Pavement Technology - Shiraz D. Tayabji 2013

"TRB's second Strategic Highway Research Program (SHRP 2) Report S2-R05-RR-1: Precast Concrete Pavement Technology reviews the available precast concrete pavement (PCP) systems; summarizes PCP applications; and offers suggested guidelines for the design, fabrication, installation, and selection of PCP systems. " -- Publisher's description.

Parliamentary Papers - Great Britain. Parliament. House of Commons 1885

Creolized Sexualities - Alison Donnell 2021-10-15

Creolized Sexualities: Undoing Heteronormativity in the Literary Imagination of the Anglo-Caribbean draws attention to a wide, and surprising, range of writings that craft inclusive and pluralizing representations of sexual possibilities within the Caribbean imagination. Reading across an eclectic range of writings from V.S. Naipaul to Marlon James, Shani Mootoo to Junot Diaz, Andrew Salkey to Thomas Glave, Curdella Forbes to Colin Robinson, this bold work of literary criticism brings into view fictional worlds where Caribbeanness and queerness correspond and reconcile. Through inspired close readings Donnell gathers evidence and argument for the Caribbean as an exemplary creolized ecology of fluid

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possibilities that can illuminate the prospect of a non-heteronormalizing future. Indeed, Creolized Sexualities hows how writers have long rendered sexual plasticity, indeterminacy, and pluralism as an integral part of Caribbeanness and as one of the most compelling if unacknowledged ways of resisting the disciplining regimes of colonial and neocolonial power.

Resilient and Responsible Smart Cities - Norsidah Ujang 2021-08-18

This book focuses on the ways in which resiliency can foster the transformation of cities. There is a growing need for our cities to be transformed into “smart” cities; in this regard, tremendous efforts are called for in order to face the environmental challenges that play a major role in the creation or transformation of cities and environments. This book covers a broad range of applications and approaches that are “smart” and “resilient,” which, when combined, offer much more flexibility concerning the future of our cities. Consequently, this simple combination, which is producing sweeping changes around the globe, has attracted considerable attention from scholars and decision-makers alike.

AASHTO Guide for Design of Pavement Structures, 1993 - American Association of State Highway and Transportation Officials 1993

Design related project level pavement management - Economic evaluation of alternative pavement design strategies - Reliability / - Pavement design procedures for new construction or reconstruction : Design requirements - Highway pavement structural design - Low-volume road design / - Pavement design procedures for rehabilitation of existing pavements : Rehabilitation concepts - Guides for field data collection - Rehabilitation methods other than overlay - Rehabilitation methods with overlays / - Mechanistic-empirical design procedures.

Transportation Planning and

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Public Participation - Ted Grossardt 2018-06-20
Transportation Planning and Public Participation: Theory, Process, and Practice explains why, and then how, transportation professionals can treat public participation as an opportunity to improve their projects and identify problems before they do real damage. Using fundamental principles based on extensive project-based research and insights drawn from multiple disciplines, the book helps readers re-think their expectations regarding the project process. It shows how public perspectives can be productively solicited, gathered, modeled, and integrated into the planning and design process, guides project designers on how to ask the proper questions and identify strategies, and demonstrates the tradeoffs of different techniques. Readers will find an analytic and evaluation framework - along with process design guidelines - that will help improve the usefulness and applicability of public input. Shows how to apply quantifiable metrics to the public participation process Helps readers critically analyze and identify project properties that impact public participation process decisions Provides in-depth examples that demonstrate how feedback, representation, and decision modeling can be integrated to achieve outcomes Demonstrates basic principles using examples from a wide range of types and scales Presents tactics on how to make public meetings more efficient and satisfying by integrating appropriate visualizations

Advances in Materials and Pavement Performance Prediction II - K. Anupam 2020-12-08
Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models,

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experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. Advances in Materials and Pavement Performance Prediction II includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders The book will be invaluable to academics and engineers involved or interested in pavement engineering, pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

The City Record - New York (N.Y.) 1884

Urban Climate and Adaptation Tools - Teodoro Georgiadis 2021-03-02

There is pressing evidence of phenomena, linked to meteorology and climate, which are modifying their temporal occurrence and which have a very evident impact on the safety and health of populations residing in cities. The urban problem at the beginning of the second set of twenty years of the new century requires a complete rethinking of the way of aggregation of man who, today, represents a large part of the world population due to increasingly accelerated urbanization processes over time. The human being has become a citizen, and within the city limits, he tries to develop his life expectancy by seizing opportunities from this. This search for well-being, understood as a complete state of man, at once physiological and psychological and social, can be thwarted by an urban structure that is not

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functionally capable of providing answers. The climate problem exacerbates this problem by strongly stressing the contradictions of living. Science, technology, and politics are today able to give answers if applied wisely in a joint effort, in a unit of language. This book proposes several solutions that can be implemented today, ranging from a full understanding of phenomena to adaptation policies for solving problems. The most pressing invitation is addressed precisely to politics to make cities more resilient and safe.

Effective Removal of Pavement Markings - Adam Matthew Pike 2013

"TRB's National Cooperative Highway Research Program (NCHRP) Report 759: Effective Removal of Pavement Markings aids in the selection of safe, cost-effective, and environmentally acceptable practices for the removal of work zone and permanent pavement markings. The practices highlighted in this report emphasize minimal damage to the underlying pavement or visible character of the surface course." -- Publisher's description

CP Study Guide and Mock Examination - National Association of Legal Assistants, Inc. 2013-06-14

Developed by the National Association of Legal Assistants (NALA), this trusted self-study guide helps you master the format and content of the CP Exams and prepare for certification success. The CP STUDY GUIDE AND MOCK EXAMINATION, Fifth Edition, includes detailed tips and proven techniques to help you sharpen your test-taking skills, as well as a series of self-tests in each exam category to provide invaluable hands-on practice. For even more thorough, realistic preparation, the guide also includes a Certified Paralegal mock exam and answer key, allowing you to simulate a full test experience. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Special Report - Highway Research Board - National Research Council (U.S.). Highway Research Board 1973

PPI Transportation Depth Six-Minute Problems for the PE Civil Exam eText - 1 Year - Norman Voigt 2018-08-08 Targeted Training for Solving PE Civil Transportation Depth Exam Multiple-Choice Problems Transportation Depth Six-Minute Problems for the PE Civil Exam contains 91 multiple-choice problems that are grouped into 10 chapters that correspond to a topic on the PE Civil exam transportation depth section. Problems are representative of the exam's format, scope of topics, and level of difficulty. Like the PE exam, an average of six minutes is required to solve each problem in this book. Each problem also includes a hint for optional problem-solving guidance. Comprehensive step-by-step solutions for all problems demonstrate accurate and efficient solving approaches. Topics Covered Alternatives Analysis Drainage Geotechnical and Pavement Horizontal Design Intersection Geometry Roadside and Cross-Section Design Signal Design Traffic Control Design Traffic Engineering Vertical Design Key Features Increase familiarity with the exam problems' format, content, and solution methods Connect relevant theory to exam-like problems Quickly identify accurate problem-solving approaches Organize the references you will use on exam day Binding: Paperback Publisher: PPI, A Kaplan Company

Quality Management of Pavement Condition Data Collection - Gerardo W. Flintsch 2009

"TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 401: Quality Management of Pavement Condition Data Collection explores the quality management practices being employed by public highway agencies for automated, semi-automated, and manual pavement data collection and

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delivery"--Publisher's description.

Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; QC; SL; SN; SH; JJF; JJG; CJ; TB; YD; YS; NY; FZ; JG; QB; SJ; SY; DL; AQ; CB; GY; JC; JR; JT - https://www.chinesestandard.net 2018-01-01

This document provides the comprehensive list of Chinese National Standards and Industry Standards (Total 17,000 standards).

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2016-12-12

Ongoing advancements in modern technology have led to significant developments in artificial intelligence. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Artificial Intelligence: Concepts, Methodologies, Tools, and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence. Highlighting relevant technologies, uses, and techniques across various industries and settings, this publication is a pivotal reference source for researchers, professionals, academics, upper-level students, and practitioners interested in emerging perspectives in the field of artificial intelligence.

National Transportation Safety Board Decisions - United States. National Transportation Safety Board

Belgium, Economic and Commercial Information - 1993

[No.] 67 (1982/1)- include material on Luxemburg.

Focus - 1993

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