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ANIYAH CASSIUS

The Future of Entrepreneurship in Latin America Springer Science & Business Media
 This book is a collation of numerous valuable guidelines for making decisions based on recent advances and improvement of transport systems. Offering know-how and discussing practical examples as well as decision-making support systems it is of interest of those who face the challenge of seeking solutions to contemporary transport system problems on a daily basis, including local authorities involved in planning and preparation of development strategies for specific transport related areas (in both urban and regional dimension) as well as representatives of business and industry who participate directly in the implementation of traffic engineering solutions. The guidelines are provided in individual chapters, making it possible to address the given problem in an advanced manner and simplify the choice of appropriate strategies (including those related to increasing competitiveness of public transport; identifying bus lines to potentially be serviced by electric buses; pedestrian traffic solutions; developing bike-sharing systems; safety conditions in road tunnels; integrating supply chains or route planning support by means of technologically advanced systems and applications). On the other hand, since the book also addresses the new approach to theoretical models (including traffic flow surveys and measurements, transport behaviours, capacity models, delay modelling and road condition modelling), it appeals to researchers and scientists studying this body of problems. The book entitled *Recent Advances in Traffic Engineering for Transport Networks and Systems* includes selected papers submitted to and presented at the 14th Scientific and Technical Conference "Transport Systems. Theory and Practice" organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology. The conference was held on 18-20 September 2017 in Katowice (Poland).
Process Engineering Renewal 2 OECD Publishing
 Automotive Vehicle Safety is a unique academic text, practical design guide and valuable reference book. It provides information that is essential for specialists to make better-informed decisions. The book identifies and discusses key generic safety principles and their applications and includes decision-making criteria, examples and remedies. It
Commercial Motor Vehicle Driver Fatigue, Long-Term Health, and Highway Safety National Academies Press
 Sustainable Development in Mechanical Engineering Cambridge Scholars Publishing

Optimum Decision Making in Asset Management Springer Nature
 This book provides a fascinating look at the amazing diversity of forms of travel and transport around the world today in the context of cultures, politics, economics, and environment of a place. Across the timeline of human history, transportation has played a role in the migration of people and information, nation-building, economic development, environmental alteration, access to and the use of resources, and even the fall of civilizations. This single-volume reference presents more than 150 entries that describe the most up-to-date surface transport technologies and routes in use on every continent, including a broad range of road vehicles, railroads, person-powered vehicles, and even animals used for transportation. The book melds transportation geography with culture, politics, economics, and environment of place in its coverage of vehicles, transportation technologies, and some of the most famous streets, rail systems, and highways from around the world. The entries are written by transport geography scholars to be accessible to general readers without technical backgrounds. Each entry incorporates cross references that allow readers to easily find related entries, making the book ideal for conducting specific research or completing school projects.

La prochaine révolution de la production Conséquences pour les pouvoirs publics et les entreprises Bloomsbury Publishing
 Unmanned ground vehicles (UGV) are expected to play a key role in the Army's Objective Force structure. These UGVs would be used for weapons platforms, logistics carriers, and reconnaissance, surveillance, and target acquisition among other things. To examine aspects of the Army's UGV program, assess technology readiness, and identify key issues in implementing UGV systems, among other questions, the Deputy Assistant Secretary of the Army for Research and Technology asked the National Research Council (NRC) to conduct a study of UGV technologies. This report discusses UGV operational requirements, current development efforts, and technology integration and roadmaps to the future. Key recommendations are presented addressing technical content, time lines, and milestones for the UGV efforts.

Technology Development for Army Unmanned Ground Vehicles IOS Press
 This Handbook is the first to explore the extensive applications made with bioplastics & biocomposites for the packaging, automotive, biomedical, and construction industries. Bioplastics and biocomposites are becoming increasingly prominent because synthetic plastics and glass fiber composites are neither sustainable nor environmentally friendly. The Handbook of Bioplastics and Biocomposites Engineering Applications brings together scientists from academia and industry to report on current research and applications in the bioplastics and

biocomposites arena. This new science is interdisciplinary and integrates pure and applied sciences such as chemistry, engineering and materials science. The Handbook focuses on five main categories of applications: Packaging; Civil Engineering; Biomedical; Automotive; General Engineering. The majority of the chapters review the properties, processing, characterization, synthesis and applications of the bio-based and biodegradable polymers and composites including: Polymers such as polylactic acid (PLA), polyhydroxybutyrate (PHB), guar gum based plastics, cellulose polyesters, starch based bioplastics, vegetable oil derived bioplastics, biopolyethylene, chitosan, etc. Thermoplastic and thermosetting bioplastics and biocomposites with a focus on the automobile industry. The ways how to improve the properties of bioplastics, polymer blends, and biocomposites by combining them with both synthetic and natural fillers and reinforcements such as nanoclays, nanotubes (CNTs), and natural fibers (both wood and plant fibers). Studies that expand the boundaries of bioplastics that will allow for the new materials to be applied to most generic engineering applications. The Handbook will be of central interest to engineers, scientists and researchers who are working in the fields of bioplastics, biocomposites, biomaterials for biomedical engineering, biochemistry, and materials science. The book will also be of great importance to engineers in many industries including automotive, biomedical, construction, and food packaging.

Recent Advances in Traffic Engineering for Transport Networks and Systems Springer Nature
 This book thoroughly examines the aims of green urbanism, providing a perspective to help responding to the growing environmental challenges posed by the enormous increase in human needs. The book gives insights about architectural intervention in urban planning which provides green design strategies in a way that improves the efficiency of building in terms of energy consumption and environmental conservation. The book also gives attention to the paradigm of the 'intermediate city', thus, helping in overcoming the challenges posed by the growing urbanization process. Finally, the book gives a futuristic vision of cities, anticipating their challenges and providing possible solutions for them. The book targets a wide audience interested in implementing the SDG goals in energy and green urban planning, and those interested the interdisciplinary nature of green urbanization and alternative and renewable energy accommodates. The book is a culmination of selected research papers from the 4th version of the International Online Conference on Green Urbanism (GU) of Roma Tre University, Italy (2020) & the 3rd version of the International Online Conference on Alternative and Renewable Energy Quest (2020).
Review of the 21st Century Truck Partnership, Second Report Springer Nature

Asset management is becoming increasingly important to an organization's strategy, given its effects on cost, production, and quality. No matter the sector, important decisions are made based on techniques and theories that are thought to optimize results; asset management models and techniques could help maximize effectiveness while reducing risk. *Optimum Decision Making in Asset Management* posits that effective decision making can be augmented by asset management based on mathematical techniques and models. Resolving the problems associated with minimizing uncertainty, this publication outlines a myriad of methodologies, procedures, case studies, and management tools that can help any organization achieve world-class maintenance. This book is ideal for managers, manufacturing engineers, programmers, academics, and advanced management students.

Leveraging Transdisciplinary Engineering in a Changing and Connected World Springer Nature

Enough about the oil problem. Here's the solution. Over a few decades, starting now, a vibrant US economy (then others) can completely phase out oil. This will save a net \$70 billion a year, revitalize key industries and rural America, create a million jobs, and enhance security. Here's the roadmap? independent, peer-reviewed, co-sponsored by the Pentagon? for the transition beyond oil, led by business and profit.

Automotive Vehicle Safety John Wiley & Sons

This book gathers the latest advances, innovations, and applications in urban and regional planning processes and science, as presented by international researchers at the 11th International Conference on Innovation in Urban and Regional Planning (INPUT), held in Catania, Italy, on September 8-10, 2021. The overarching theme of the conference INPUT 2021 was "Integrating Nature-Based Solutions in Planning Science and Practice", with contributors focusing on functionality of urban ecosystems toward more healthier and resilient cities, planning solutions for socio-ecological systems, technologies and hybrid models for spatial planning, geodesign, urban metabolism, computational planning, ecosystems services, green infrastructure, climate change adaptation and mitigation, rural landscapes, cultural heritage, and accessibility for urban planning. The conference brought together international scholars in the field of planning, civil engineering and architecture, ecology and social science, to build and consolidate the knowledge and evidence on NBS in urban and regional planning.

History of Technology National Academies Press

This book presents an extensive study on the extant constructs of corruption in infrastructure-related projects and aims to contribute to the determination and elimination of its incidence and prevalence in infrastructure projects. The book conducts a comprehensive examination of the various determining factors of corruption that negatively affect the procurement process and, in the end, result in cost and time overruns. The authors present an in-depth understanding of how the identified determining factors of corruption can be addressed. Thus, it is intended to broaden the reader's knowledge of the causes, risk indicators, and different forms of corrupt practices in the procurement process of infrastructure works, before explaining how they affect its stages and activities. A dynamic model is developed to demonstrate how to tackle the overall impact of corruption within the procurement process and, at the same time, increase the effectiveness of the extant anti-corruption measures. In short, this book demonstrates that the fight against corruption in the procurement process is strategically feasible and must continue. This book is essential reading for academics, researchers, professionals and stakeholders in the procurement of infrastructure projects and civil works, as well as those with an interest in corruption, construction management and construction project management. *Cars* John Wiley & Sons

This book constitutes the refereed proceedings of the 9th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2011, held in Orlando, FL, USA, in July 2011, within the framework of the 14th International Conference on Human-Computer Interaction, HCI 2011, together with 11 other thematically similar conferences. The 67 full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical parts on cognitive and psychological aspects of interaction; cognitive aspects of driving; cognition and the Web; cognition and automation; security and safety; and aerospace and military

applications.

Open-Source Electronics Platforms Routledge

This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2021. The contents of this volume focus on specialty conferences in construction, environmental, hydrotechnical, materials, structures, transportation engineering, etc. This volume will prove a valuable resource for those in academia and industry.

Overcoming Barriers to Deployment of Plug-in Electric Vehicles Springer

This book presents the proceedings of the third Vehicle and Automotive Engineering conference, reflecting the outcomes of theoretical and practical studies and outlining future development trends in a broad field of automotive research. The conference's main themes included design, manufacturing, economic and educational topics.

Handbook of Bioplastics and Biocomposites Engineering Applications CRC Press

Simple problems have become rare in today's technologically advanced world. Problems are typically much more complex, and solving them requires integrative knowledge from several disciplines. Technology alone cannot be the answer. Collaborative teams equipped with knowledge and skills in various disciplines are indispensable to exploit technologies effectively and create new conceptual, theoretical, methodological, and translational innovations that integrate and move beyond discipline-specific approaches to address a common problem in the changing and connected world. This book presents the proceedings of TE2023, the 30th International Conference on Transdisciplinary Engineering, held in Hua Hin Cha Am, Thailand from 11-14 July 2023. The theme of this year's conference was Leveraging Transdisciplinary Engineering in a Changing and Connected World, and it provided a forum for more than 115 participants from academia and industry to exchange knowledge and ideas connected to this aspect of transdisciplinary engineering. A total of 117 submissions were received for the conference, of which 93 were selected for presentation and publication here following a rigorous abstract and full-paper review process. They are arranged under 7 categories: product design and development; team working; smart operations for value chain management; transdisciplinary approaches; engineering education; critical issues in transdisciplinary engineering; and theoretical contributions. Providing a comprehensive overview of the latest innovations and ideas in transdisciplinary engineering, the book will be of interest to all those working in the field.

River.Space.Design Academic Press

This book gathers high-quality research papers presented at the 6th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2021) organized by Bhubaneswar Institute of Technology, Bhubaneswar, Odisha, India, during December 23-24, 2021. It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering. Intended for graduate students and researchers working in the disciplines of computer science and engineering, the proceedings also appeal to researchers in the field of electronics, as they cover hardware technologies and future communication technologies.

Innovations in Green Urbanization and Alternative Renewable Energy Springer Nature

In the past few years, interest in plug-in electric vehicles (PEVs) has grown. Advances in battery and other technologies, new federal standards for carbon-dioxide emissions and fuel economy, state zero-emission-vehicle requirements, and the current administration's goal of putting millions of alternative-fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles, such as lower operating costs, smoother operation, and better acceleration; the ability to fuel up at home; and zero tailpipe emissions when the vehicle operates solely on its battery. There are, however, barriers to PEV deployment, including the vehicle cost, the short all-electric driving range, the long battery charging time, uncertainties about battery life, the few choices of vehicle models, and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and make them more attractive to consumers? At the request of Congress, *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these

barriers. This report examines the characteristics and capabilities of electric vehicle technologies, such as cost, performance, range, safety, and durability, and assesses how these factors might create barriers to widespread deployment. *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers. Through consideration of consumer behaviors, tax incentives, business models, incentive programs, and infrastructure needs, this book studies the state of the industry and makes recommendations to further its development and acceptance.

Autonomous and Connected Heavy Vehicle Technology National Academies Press

The complex subject is explained with completeness and simplicity of expression, so that it can be read and understood by everyone. The motor racing wing is at the center of the story, while the picture is completed by the entire aerodynamic behavior of the racing car. The volume also includes a specific chapter on CFD (fluid dynamics computation). Hundreds of illustrations enhance this work, which is an indispensable starting point for people who want to know all about this complex but fascinating subject.

Driver and Vehicle Simulation, Human Performance, and Information Systems for Highways; Railroad Safety; and Visualization in Transportation Bloomsbury Publishing USA

While urban settlements are the drivers of the global economy and centres of learning, culture, and innovation and nations rely on competitive dynamic regions for their economic, social, and environmental objectives, urban centres and regions face a myriad of challenges that impact the ways in which people live and work, create wealth, and interact and connect with places. Rapid urbanisation is resulting in urban sprawl, rising emissions, urban poverty and high unemployment rates, housing affordability issues, lack of urban investment, low urban financial and governance capacities, rising inequality and urban crimes, environmental degradation, increasing vulnerability to natural disasters and so forth. At the regional level, low employment, low wage growth, scarce financial resources, climate change, waste and pollution, and rising urban peri-urban competition etc. are impacting the ability of regions to meet socio-economic development goals while protecting biodiversity. The response to these challenges has typically been the application of inadequate or piecemeal solutions, often as a result of fragmented decision-making and competing priorities, with numerous economic, environmental, and social consequences. In response, there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects, such as roads, buildings, transport links etc., within a range of urban and regional settings or contexts. This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates, lifestyles, income levels, and stages development are creating synergies and reducing trade-offs in the development of resilient, resource-efficient, environmentally friendly, liveable, socially equitable, integrated, and technology-enabled centres and regions.

Smart Cities Atlas Springer Nature

The book discusses the concept of the smart city, and is based on a multi-service and multi-sectoral approach to urban planning, including various urban functions and the human capital of cities. The work is divided into three parts. The first is an introductory section which covers definitions, policies and tools used at European level for the development and classification of a smart city. The second presents a selection of examples of Western and Eastern communities, which experienced technologies and strategies that have made them smart. The third describes in detail the main three possible approaches (economical, technological and social) to the smart city concept which are the focus ambits of the holistic concept of smart city. The work provides a good overview of the concept of smart city, and also offers a critical analysis of the various approaches to smart cities, in order to provide tools to develop solutions that address the smart development of cities with an approach as multi-sectoral as possible. Its accessible language and several examples make the book easy to read and appealing to public administrators, students, planners and researchers.

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