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Climate alarmist group Extinction Rebellion used a drone to disrupt Heathrow Airport in London. Their leader was arrested in 2019 and there was a lengthy court process on how exactly he should be ...

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“Digitize or Die” was the ominous topic given to an illustrious panel of industry experts and academicians of a panel discussion that took place at the ThoughtWorks Live! conference held in ...

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Geosynthetics and their applications is a book to which students (at all levels) and engineers in search of novel approaches to solutions for civil engineering problems can refer. The topics presented are based on major field application areas for geosynthetics in civil engineering. The straightforward and concise presentation

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of topics in the book will be helpful for those with limited experience of geosynthetics, while more experienced users will easily be able to find information relating to solutions to specific engineering problems. The inclusion of case histories and practical aspects of the application of geosynthetics,

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along with recent developments and references, makes this book a valuable resource for practising engineers, students and researchers alike.

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil

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Engineering (TRACE 2018). The book covers cutting-edge methods and applications in the field of traffic control, transportation planning, road maintenance, and highway and pavement engineering. Case studies on traffic safety, pedestrian behavior, and highway maintenance and design are also presented in this book. The

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contents of this book are useful for researchers and practitioners working in transportation and traffic engineering.

Mechatronics is a multidisciplinary field combining Mechanical, Electronic, Computer, and other Engineering fields to develop intelligent processes and products.

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Based on thirty years of extensive work in industry and teaching, this book provides an overview of the sensors and sensor systems required and applied in mechatronics with an emphasis on understanding the physical principles and possible configurations of sensors rather than simply a discussion of particular

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types of sensors. Well illustrated with examples of commercially available sensors and of recent and future developments, this book offers help in achieving the best solution to various kinds of sensor problems encountered in mechatronics. In a clear and detailed manner, the author reviews the major

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types of transducers, presents a characterization of the state-of-the-art in sensing technology and offers a view on current sensor research. This book will be a vital resource for practicing engineers and students in the field. Comprehensive coverage of a wide variety of sensor concepts and basic measurement

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configurations encountered in the mechatronics domain Written by a recognized expert in the field who has extensive experience in industry and teaching Suitable for practicing engineers and those wanting to learn more about sensors in mechatronics

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"This book aims to present a comprehensive, up to date source of information about traffic engineering and management in Australia. It is written for the practising traffic engineer or traffic professional, but has particular appeal to students because it deliberately emphasises the fundamentals and

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theoretical underpinnings of the subject matter."--Preface, p. xvii.

TRB's Airport Cooperative Research Program (ACRP) Report 25, Airport Passenger Terminal Planning and Design comprises a guidebook, spreadsheet models, and a user's guide in two volumes

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and a CD-ROM intended to provide guidance in planning and developing airport passenger terminals and to assist users in analyzing common issues related to airport terminal planning and design. Volume 1 of ACRP Report 25 explores the passenger terminal planning process and provides, in a single reference

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document, the important criteria and requirements needed to help address emerging trends and develop potential solutions for airport passenger terminals. Volume 1 addresses the airside, terminal building, and landside components of the terminal complex. Volume 2 of ACRP Report 25 consists of a CD-ROM

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containing 11 spreadsheet models, which include practical learning exercises and several airport-specific sample data sets to assist users in determining appropriate model inputs for their situations, and a user's guide to assist the user in the correct use of each model. The models on the CD-ROM include such aspects of terminal

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planning as design hour determination, gate demand, check-in and passenger and baggage screening, which require complex analyses to support planning decisions. The CD-ROM is also available for download from TRB's website as an ISO image.

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Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important

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statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those

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appearing of the AMIE examination and would also be a ready reference for railway professionals.

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The new edition of this popular textbook provides a modern, accessible introduction to the whole process of aircraft design from requirements to conceptual design, manufacture and in-service issues. Highly illustrated descriptions of the full spectrum of aircraft types, their aerodynamics, structures and systems, allow students to

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appreciate good and poor design and understand how to improve their own designs. Cost data is considerably updated, many new images have been added and new sections are included on the emerging fields of Uninhabited Aerial Vehicles and environmentally-friendly airlines.

Examples from real aircraft projects are

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presented throughout, demonstrating to students the applications of the theory. Three appendices and a bibliography provide a wealth of information, much not published elsewhere, including simple aerodynamic formulae, an introduction to airworthiness and environmental requirements, aircraft, engine and

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equipment data, and a case study of the conceptual design of a large airliner.

Authoritative, Up-to-Date Coverage of Airport Planning and Design Fully updated to reflect the significant changes that have occurred in the aviation industry, the new edition of this classic text offers

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definitive guidance on every aspect of planning, design, engineering, and renovating airports and terminals.

Planning and Design of Airports, Fifth Edition, includes complete coverage of the latest aircraft and air traffic management technologies, passenger processing technologies, computer-based analytical

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and design models, new guidelines for estimating required runway lengths and pavement thicknesses, current Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) standards, and more. Widely recognized as the field's standard text, this time-tested, expertly written reference is

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the best and most trusted source of information on current practice, techniques, and innovations in airport planning and design. **COVERAGE INCLUDES:** Designing facilities to accommodate a wide variety of aircraft
Air traffic management Airport planning studies Forecasting for future demands on

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airport system components Geometric design of the airfield Structural design of airport pavements Airport lighting, marking, and signage Planning and design of the terminal area Airport security planning Airport airside capacity and delay Finance strategies, including grants, bonds, and private investment

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Environmental planning Heliports

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