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Advances in Transportation Geotechnics IV Eleventh International Conference on the Bearing Capacity of Roads, Railways and Airfields Infrastructure Sustainability Through New Developments in Material, Design, Construction, Maintenance, and Testing of Pavements Free-Ranging Dogs and Wildlife Conservation Advances in Materials and Pavement Performance Prediction II **The Aggregates Handbook, Second Edition** *Thin Film Transistor Circuits and Systems* **Intensification of Sorption Processes** Who's Who in Computational Science and Engineering **Zahra's Paradise Paving Materials and Pavement Analysis** Textile Wastewater Treatment Advanced Technologies in Wastewater Treatment **Iranian Cinema and the Islamic Revolution** *Introduction to Image Acquisition and Display Technologies* *Iranians in London* The Atlas of Mars **Emerging Technologies for Nanoparticle Manufacturing** **Judicial Reform and Reorganization in 20th Century Iran** *Reading Abolition* *Gay Life Stories* **Iran, in Defense of Human Rights** *Security and Territoriality in the Persian Gulf* **Political Conservatism and Religious Reformation in Iran (1905-1979)** Omics technologies in livestock improvement: From selection to breeding decisions **Laboratory Guide to the Methods in Biochemical Genetics** **Drying of Herbs, Spices, and Medicinal Plants** **Airfield and Highway Pavements 2021** **The Failure Factory** *The Iranian Journal of International Affairs* *Pavement Drainage: Theory and Practice* *Mapping the Role of Intellectuals in Iranian Modern and Contemporary History* **Boundary Politics and International Boundaries of Iran** **Iran Almanac and Book of Facts** **Spatial Modeling in GIS and R for Earth and Environmental Sciences** **Spatial Modeling in Forest Resources Management** **Iranian Cinema, 1985-1988** **Atomic and Nano Scale Materials for Advanced Energy Conversion, 2 Volumes** **Directory of Iranian Officials** **Unknowing and the Everyday**

in this valuable reference work ichiro fujieda focuses on the component technologies device configurations and operation principles of image acquisition and display technologies and provides detailed use cases to give practical guidance on the various current and potential future applications of these technologies the technology and the physics behind these devices can be grouped into three categories optical technology material science and semiconductor device technology this book enables readers to gain an understanding of these three areas in relation to the flow of image information and several example applications of the technology fujieda first describes the building blocks of image sensors and displays detectors light sources transistors and wavefront control devices and their configurations operation principles and characteristics he then describes in more detail image sensor technology including mos image sensors ccd technologies and x ray and infrared imagers and displays including thin film transistor arrays lcds oleds mems devices and more finally he provides real world examples of how these technologies are used together to give the reader an understanding of their practical applications and their potential use in future devices some important laws in optics and definitions in color science are included for easy reference through this approach the reader will gain a detailed understanding of each of the component parts of existing imaging devices and will be able to apply this to future developments within the field this book will benefit any advanced undergraduate and graduate student and industry professional who wishes to expand his or her understanding of the hardware handling digital images some basic knowledge is required on semiconductor device physics and the interaction of radiation with matter though these are described in the appropriate sections 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 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 a comprehensive review of the design challenges associated with building thin film transistor circuits and systems and how to overcome them in unknowing and the everyday seema golestaneh examines how sufi mystical experience in iran shapes contemporary life central to this process is ma rifat or unknowing the idea that as it is ultimately impossible to fully understand the divine humanity must operate from an engaged awareness that it knows nothing golestaneh shows that rather than considering ma rifat an obstacle to intellectual engagement sufis embrace that there will always be that which they do not know from this position they affirm both the limits of human knowledge and the mysteries of the profane world through ethnographic case studies golestaneh traces the affective and sensory dimensions of ma rifat in contexts such as the creation of collective sufi spaces the interpretation of persian poetry formulations of selfhood and non selfhood and the navigation of the socio material realm by outlining the relationship between ma rifat and religious aesthetic and social life in iran golestaneh demonstrates that for sufis the outer bounds of human thought are the beginning rather than the limit this edited volume adopts a global perspective to review how dogs interact with wildlife how humans perceive these interactions the potential importance of dog wildlife interactions and the scope of the problems this book

includes a collection of research and practical papers aiming with key priority for improving the infrastructural sustainability for our well being and day to day lives through novel developments the united efforts through new developments in material design construction maintenance and testing of pavements from all over the world are taken under one umbrella topics include issues related to civil infrastructure such as the use of construction waste recycled aggregates service life prediction of pavements mechanical behavior of sma control measures of ready mixed concrete determination of landslide high risk areas simulation of rock hydraulics in rock joint sustainable planning for provision of basic infrastructural facilities in rural areas it is anticipated that this book will support decisions regarding the optimal management and maintenance of civil infrastructures to support a more resilient and sustainable environment for infrastructure users drawing on ethnographic encounters with self identified gay men in iran this book explores the construction enactment and veiling and unveiling of gay identity and same sex desire in the capital city of tehran the research draws on diverse interpretive historical online and empirical sources in order to present critical and nuanced insights into the politics of recognition and representation and the constitution of same sex desire under the specific conditions of iranian modernity as it engages with accounts of the persecuted iranian gay male subject as a victim of the barbarism of the islamic republic of iran the book addresses interpretive questions of sexuality governance in transnational contexts and attends to issues of human rights frameworks in weighing social justice and political claims made by and on behalf of sexual and gender minorities the book thus combines empirical data with a critical consideration of the politics of same sex desire for iranian gay men the achievements and biographical details of nearly 1 500 key researchers and practitioners in the fields of computational mechanics applied mathematics computer science artificial intelligence aerospace aeronautical

chemical civil environmental mechanical and structural engineering are included in this directory the u s government is in crisis the real power in america has shifted to a vast network of unelected officials whose authority has grown wildly out of control in his latest blockbuster book acclaimed defense and national security reporter bill gertz exposes this group of astonishingly powerful leaders and their enablers in the political class and its devastating effect on america s national security gertz names names of those who actively subvert official u s policy including not only liberal democrats but also a number of so called republicans who have joined this insidious blame america first crowd based on scores of exclusive interviews and displaying the groundbreaking reporting that has made bill gertz s previous books smash bestsellers the failure factory offers a chilling look at the threats to our national security that exist within our own government mr gertz makes some extremely important points the washington times the hottest reporter in town gertz breaks dozens of stories every year the washington post this book provides an overview of nanoparticle production methods scale up issues drawing attention to industrial applicability and addresses their successful applications for commercial use there is a need for a reference book which will address various aspects of recent progress in the methods of development of nanoparticles with a focus on polymeric and lipid nanoparticles their scale up techniques and challenges in their commercialization there is no consolidated reference book that discusses the emerging technologies for nanoparticle manufacturing this book focuses on the following major aspects of emerging technologies for nano particle manufacturing i introduction and biomedical applications of nanoparticles ii polymeric nanoparticles iii lipid nanoparticles iv metallic nanoparticles v quality control for nanoparticles vi challenges in scale up production of nanoparticles vii injectable nanosystems viii future directions and challenges leading scientists are selected as chapter authors who have contributed significantly in

this field and they focus more on emerging technologies for nanoparticle manufacturing future directions and challenges this volume presents selected papers presented during the 4th international conference on transportation geotechnics ictg the papers address the geotechnical challenges in design construction maintenance monitoring and upgrading of roads railways airfields and harbor facilities and other ground transportation infrastructure with the goal of providing safe economic environmental reliable and sustainable infrastructures this volume will be of interest to postgraduate students academics researchers and consultants working in the field of civil and transport infrastructure in spite of international award winning productions iran s cinema is underexposed because of the prevailing religious political and social atmosphere in iran the country s cinema remained stagnant for more than 50 years although the new iranian cinema had begun to develop before the 1979 revolution the political changes gave rise to a new wave of expression this volume examines the two waves of modern iranian cinema before and after the islamic revolution of 1979 the first began about 1969 and the second started in 1984 and carried its momentum through 1997 topics discussed include the effect of cultural mores on cinematic growth the development of iranian cinema as a reaction against commercial cinema and the effect of politics on the film industry foreign influence largely american and indian on iranian films is also examined critical sources used are primarily persian to give the reader a culturally inclusive view of each production specific films discussed include fickle the cow mud brick and mirror captain khorshid and downpour a chapter by chapter filmography is included spatial modeling in gis and r for earth and environmental sciences offers an integrated approach to spatial modelling using both gis and r given the importance of geographical information systems and geostatistics across a variety of applications in earth and environmental science a clear link between gis and open source software is essential for the study of spatial objects or phenomena that occur in the real world and

facilitate problem solving organized into clear sections on applications and using case studies the book helps researchers to more quickly understand gis data and formulate more complex conclusions the book is the first reference to provide methods and applications for combining the use of r and gis in modeling spatial processes it is an essential tool for students and researchers in earth and environmental science especially those looking to better utilize gis and spatial modeling offers a clear interdisciplinary guide to serve researchers in a variety of fields including hazards land surveying remote sensing cartography geophysics geology natural resources environment and geography provides an overview methods and case studies for each application expresses concepts and methods at an appropriate level for both students and new users to learn by example this study presents the story of successes and failures of the treatment of security matters pertaining to territorial and boundary affairs in the maritime areas of the persian gulf and at the same time provides an example of the impact of territoriality on world wide maritime security drying is a key operation in processing of many plant based foods and medicines for the purpose of preservation and retention of key attributes and active compounds therefore it is essential to select suitable drying techniques to ensure a product is processed under optimal operating conditions drying of herbs spices and medicinal plants presents processing aspects of these three major global agricultural commodities it offers an insight into the drying and product quality of herbs spices and medicinal plants such as drying characteristics equipment selection physiochemical analyses quality improvement product development storage and shelf life as well as future developments offers the latest information on drying and processing technologies research and development summarizes various drying techniques their advantages and limitations industrial applications and simple design methods presents guidelines for dryer selection links theory and practice envisages future trends and demands featuring chapters from expert authors in both

industry and academia this book is an important resource for those working in the chemical food processing pharma and biotech industries especially those focused on the drying of plants for food and medicinal applications a graphic novel release of the acclaimed online serialized story follows the desperate search for a young iranian protester who went missing in the aftermath of iran s fraudulent 2009 elections a search kept alive by his dedicated mother and tenacious blogger brother 30 000 first printing this book is about iranian boundaries at a time when crisis of various nature are occurring around iran especially in iraq and afghanistan with immediate effect on the iranian borderlands and substantial effect of iran s relations with her neighbours furthermore issues like the legal regime of the caspian sea and the uae claims on the iranian owned and iranian held islands of tunbs and abu musa in the persian gulf create a situation in iran s neighbourhood which influence her foreign relations and engage the country in matters of international importance occurrence of all these issues on and around the boundaries of iran and a thorough study of the unexplored foundation and evolution of these issues within the framework of the study of the iranian boundaries make this book timely special original and important this manual deals specifically with laboratory approaches to diagnosing inborn errors of metabolism the key feature is that each chapter is sufficiently detailed so that any individual can adopt the described method into their own respective laboratory advanced technologies in wastewater treatment oily wastewaters focuses on characteristics and innovative treatment technologies of oily wastewater from various resources primary and physical treatment methods such as absorption adsorption followed by common techniques like coagulation and fluctuation are discussed in detail applications of other advanced methods for the treatment of oily wastewaters like utilization of membranes and stripping gases are covered as well finally novel technologies applied in purification of oily wastewaters such as photocatalytic degradation and biological processes

are reviewed and future outlooks and prospects are also illustrated introduces the characteristics of oily wastewaters from various sources includes primary and physical treatment techniques applied on oily wastewaters such as settlement absorption and adsorption describes advanced oily wastewater treatment technologies such as coagulation fluctuation and membrane explains novel processes for oily wastewater treatment such as biological processes and photocatalytic degradation in this first volume various materials such as chitosan lignin based biomaterials cellulosic based bio materials carbon materials polysaccharide composites materials aromatic based synthetic macromolecules agricultural wastes etc for treating textile waste water are highlighted one of the major pollutants in the textile and fashion industry is textile waste water textile wastewater can lead to serious environmental issues if discharged without proper and sufficient treatment the materials employed along with the technologies available to treat waste water are the key there are a lot of advancements in terms materials technologies employed for textile waste water treatment sustainable bio nano materials and macro molecules play a major role in the efficient treatment of textile waste water epilogue critical futures stowe and douglass together and separately works cited index selected papers from the international airfield and highway pavements conference 2021 held virtually june 8 10 2021 sponsored by the transportation development institute of asce this collection contains 36 peer reviewed papers on pavement materials and sustainability topics include laboratory and field characterization of asphalt binders modifiers and rejuvenators asphalt mixtures and modification recycled and waste materials in asphalt mixtures unbound base subgrade materials and stabilization pavement life cycle management interactions of pavements and their environment cementitious materials characterization and concrete pavement technology and innovative and sustainable technologies used in pavement applications this proceedings will be of interest to engineers designers project

construction managers researchers and contractors involved in the design and construction of airfield and highway pavements intensification of sorption processes active and passive mechanisms introduces a number of selected advanced topics in sorption processes process intensification covering both theoretical and applicable aspects the first part of the book is devoted to the study of sorption processes based on active mechanisms including ultrasonic microwave high gravity electrical and magnetic fields while the second part covers passive mechanisms like nanostructures and nanofluids membrane supercritical fluids and sorption processes based on geometry design and equipment structure the focus of the book is on key aspects of novel process intensification technologies processes and equipment i e absorption and adsorption working principles and design and applications covers all developments in the field of active and passive mechanisms for sorption processes introduces basic principles of any intensified sorption process along with details of equipment evaluates industrial upscaling economic evaluation justification future opportunities and challenges for each sorption process iran is now at the center of political and social developments in the middle east this book examines the reform of the judicial system in 20th century iran and is the first to relate state building process with rule of law promotion and judicial reform in the region this subject occupies the critical juncture of three developments in the contemporary study of iranian society as an important and early case of social revolution and reform in the middle east the state building process in a non western country throughout the 20th century the incorporation of a non western muslim country into the western legal framework through codification and transplantation 1911 1979 and the islamicization process after this critical social development and the islamic revolution of 1979 this exceptional study furthers our understanding of iranian modern history as well as the democratization process human rights and rule of law issues in the middle east in mapping the role of intellectuals in iranian modern and

contemporary history jahanbegloo and contributors examine the role of iranian intellectuals in the history of iranian modernity they trace the contributions of intellectuals in the construction of national identity and the iranian democratic debate analyzing how intellectuals balanced indebtedness to the west with the issue of national identity in iran recognizing how intellectual elites became beholden to political powers the contributors demonstrate the trend that intellectuals often opted for cultural dissent rather than ideological politics this book explores the psychosocial significance of loss and exclusion in the lives of many iranian immigrants living in london since the iranian revolution of 1979 it addresses the experiences of middle class iranians who left iran in both voluntary contexts immigration and in enforced contexts exile the author elucidates the experiences of ordinary middle class iranians who chose to leave iran given the socio politico cultural context of the changes wrought by the islamic republic in iranian society mahnaz sekechi argues that losses of country liberty and security in iran combined with varying degrees of social exclusion and downward mobility in london have led to an encapsulated sadness for many despite their capacity for creative living the book also demonstrates the value of psychosocial analysis in understanding dislocations in general and their effects on wellbeing this book demonstrates the measurement monitoring mapping and modeling of forest resources it explores state of the art techniques based on open source software r statistical programming and modeling specifically with a focus on the recent trends in data mining machine learning techniques and robust modeling in forest resources discusses major topics such as forest health assessment estimating forest biomass carbon stock land use forest cover lufc dynamic vegetation modeling dvm approaches forest based rural livelihood habitat suitability analysis biodiversity and ecology and biodiversity the book presents novel advances and applications of rs gis and r in a precise and clear manner by offering insights into various concepts and their importance for real world applications

it equips researchers professionals and policy makers with the knowledge and skills to tackle a wide range of issues related to geographic data including those with scientific societal and environmental implications pavement design and paving material selection are important for efficient cost effective durable and safe transportation infrastructure paving materials and pavement analysis contains 73 papers examining bound and unbound material characterization modeling and performance of highway and airfield pavements the papers in this publication were presented during the geoshanghai 2010 international conference held in shanghai china june 3 5 2010 summary this book provides complete coverage of surface and subsurface drainage of all types of pavements for highways urban roads parking lots airports and container terminals it provides up to date information on the principles and technologies for designing and building drainage systems and examines numerous issues including maintenance and designing for flood events practical considerations and sophisticated analysis such the use of the finite element method and unsaturated soil mechanics anisotropy and uncertainties are presented this book allows civil engineers to make the best use of their resources to provide cost effective and sustainable pavements features presents a holistic consideration of drainage with respect to pavement performance includes numerous practical case studies examines flooding and the impacts of climate change includes powerpoint slides which include quizzes schematics figures and tables atomic and nano scale materials for advanced energy conversion discover the latest advancements in energy conversion technologies used to develop modern sustainable energy techniques in atomic and nano scale materials for advanced energy conversion expert interdisciplinary researcher dr zongyou yin delivers a comprehensive overview of nano to atomic scale materials science the development of advanced electrochemical photochemical photoelectrochemical and photovoltaic energy conversion strategies and the applications for sustainable water splitting and other technologies the book offers readers cutting edge

information of two dimensional nano mixed dimensional nano nano rare earth clusters and single atoms it constructively evaluates emerging nano to atomic scale energy conversion technologies for academic research and development r d researchers and industrial technique consultants and engineers the author sets out a systematic analysis of recent energy conversion science covering topics like adaptable manufacturing of van der waals heterojunctions mixed dimensional junctions tandem structures and superlattices he also discusses function oriented engineering in polymorphic phases photon absorption excitons charges conversion non noble plasmonics and solid liquid gas interactions readers will also benefit from a thorough introduction to emerging nanomaterials for energy conversion including electrochemical photochemical photoelectrochemical and photovoltaic energy conversion an exploration of clusters for energy conversion including electrochemical photochemical and photoelectrochemical clusters practical discussions of single atoms for energy conversion in electrochemical photochemical and photoelectrochemical energy conversion technologies a thorough analysis of future perspectives and directions in advanced energy conversion technology perfect for materials scientists photochemists electrochemists and inorganic chemists atomic and nano scale materials for advanced energy conversion is also a must read resource for catalytic chemists interested in the intersection of advanced chemistry and physics in energy conversion technologies planetary scientist and educator ken coles has teamed up with ken tanaka from the united states geological survey s astrogeology team and phil christensen principal investigator of the mars odyssey orbiter s themis science team to produce this all purpose reference atlas the atlas of mars each of the thirty standard charts includes a full page color topographic map at 1 10 000 000 scale a themis daytime infrared map at the same scale with features labeled a simplified geologic map of the corresponding area and a section describing prominent features of interest the atlas is rounded out with extensive material on mars global

characteristics regional geography and geology a glossary of terms and an indexed gazetteer of up to date martian feature names and nomenclature this is an essential guide for a broad readership of academics students amateur astronomers and space enthusiasts replacing the nasa atlas from the 1970s innovations in road railway and airfield bearing capacity volume 1 comprises the first part of contributions to the 11th international conference on bearing capacity of roads railways and airfields 2022 in anticipation of the event it unveils state of the art information and research on the latest policies traffic loading measurements in situ measurements and condition surveys functional testing deflection measurement evaluation structural performance prediction for pavements and tracks new construction and rehabilitation design systems frost affected areas drainage and environmental effects reinforcement traditional and recycled materials full scale testing and on case histories of road railways and airfields this edited work is intended for a global audience of road railway and airfield engineers researchers and consultants as well as building and maintenance companies looking to further upgrade their practices in the field this book is a theoretical inquiry on the relation of the body politic with the religious movements in the time between the constitutional revolution and the islamic revolution in iran it illustrates speculative and historical analyses on the relationship of state religion and socio political status in the late qajar dynasty 1905 1925 and the whole pahlavi monarchy particularly it examines the applicability of liberal conservatism to the era of the last shah of iran the thesis defines the term political conservatism in accord with edmund burke s philosophy it deals next with the definition of religious reformation the peculiar characteristics of islam the shi ite political theology and the contradictory usages of islamic reformation in the literature the text gives an overview of the two antagonist sides of nationalism it provides also an analysis of the islamic republic as a new political phenomenon in iranian history and the

transformation of all concepts after 1979 ayatollahi aims to assess the iranian conservatism the possibility of conciliation between politics and religion before the collapse of the pahlavi and the conditions of possibility for any restoration of the monarchy

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