

Pdf free Basic electronics engineering by sahdev (PDF)

this textbook basic electrical engineering is based on the latest syllabus of the universities aicte and educational institutes in this edition some material of the book has been rewritten to make the presentation easily comprehensible more illustrative examples mainly from ias ies and gate and other competitive examinations have been added various problems with answers have been added to support the text for quick revision summary highlights are given at the end of each chapter salient features dc circuits ac circuits transformers electrical machines power converters electrical installations attuned to the needs of undergraduate students of engineering in their first year basic electrical engineering enables them to build a strong foundation in the subject a large number of real world examples illustrate the applications of complex theories the book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject offers key concepts of electrical machines embedded with solved examples review questions illustrations and open book questions attuned to the needs of undergraduate students of engineering in their first year basic electrical engineering enables them to build a strong foundation in the subject a large number of real world examples illustrate the applications of complex theories the book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject this book presents select proceedings of the international conference on future learning aspects of mechanical engineering flame 2020 the book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics finite element modeling computer aided engineering and analysis fracture mechanics and vibration the book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field this book presents the select proceedings of the international conference on advanced production and industrial engineering icapie 2021 held at delhi technological university delhi during june 18 19 2021 the book covers the recent advances and challenges in the area of production and industrial engineering various topics covered include artificial intelligence and expert systems cad cam integration technology cad cam automation and robotics computer aided geometric design and simulation construction machinery and equipment design tools cutting tool material and coatings dynamic mechanical analysis optimization and control energy machinery and equipment flexible manufacturing technology and system fluid dynamics bio fuels fuel cells high speed precision machining laser processing technology logistics and supply chain management machinability of materials composite materials material engineering mechanical dynamics and its applications mechanical power engineering mechanical transmission theory and applications non traditional machining processes operations management precision manufacturing and measurement precision manufacturing and measurement reverse engineering and structural strength and robustness this book is useful for various researcher mainly mechanical and allied engineering discipline the world is facing unprecedented environmental and social challenges that threaten our ability to achieve a sustainable future for all issues like climate change resource depletion and social inequality require urgent action but technology while a potential solution also introduces new risks promoting sustainable management through technological innovation offers a comprehensive solution by exploring the benefits and risks of technology emphasizing ethical considerations and providing insights and recommendations for policymakers business leaders and researchers to harness technological innovation for sustainability this book contributes to the ongoing conversation around sustainable development by guiding policymakers in developing effective policies assisting business leaders in implementing sustainable practices and providing researchers with a comprehensive overview of current research it serves as a valuable resource for academic scholars and professionals interested in the intersection of technology and sustainability policymakers can shape policies promoting sustainability business leaders can integrate sustainable practices and innovation researchers can gain insights for further investigation and educators can utilize it in sustainability and technology courses overall the book serves as a key reference guiding readers toward responsible and effective solutions that leverage technology for a more sustainable future the ever evolving field of management in today s corporate world is marked by constant disruptions and turbulence the emergence of artificial intelligence ai and emotional intelligence ei presents opportunities for automation optimization and effective leadership but it also raises concerns about job displacement and the need to bridge the gap between these two domains ai and emotional intelligence for modern business management bridging the gap and nurturing success offers solutions to closing the knowledge gap this book provides comprehensive insights and practical strategies to

academic scholars researchers practitioners educators and students targeting a diverse audience this book serves as a solution oriented resource for navigating the complexities of ai and ei in business management by addressing both ai and ei the book equips readers with the necessary tools to integrate these domains seamlessly into modern business management practices stimulating informed discussions inspiring innovative approaches and fostering a deeper understanding of the opportunities and challenges posed by these emerging fields this book constitutes the refereed proceedings of the 11th international conference on computer vision systems icvs 2017 held in shenzhen china in july 2017 the 61 papers presented were carefully reviewed and selected from 92 submissions the papers are organized in topical sections on visual control visual navigation visual inspection image processing human robot interaction stereo system image retrieval visual detection visual recognition system design and 3d vision fusion there is no industry left where artificial intelligence is not used in some capacity the application of this technology has already stretched across a multitude of domains including law and policy it will soon permeate areas beyond anyone's imagination technology giants such as google apple and facebook are already investing their money effort and time toward integrating artificial intelligence as this technology continues to develop and expand it is critical for everyone to understand the various applications of artificial intelligence and its full potential the handbook of research on innovative management using ai in industry 5 0 uncovers new and innovative features of artificial intelligence and how it can help in raising economic efficiency at both micro and macro levels and provides a deeper understanding of the relevant aspects of artificial intelligence impacting efficacy for better output covering topics such as consumer behavior information technology and personalized banking it is an ideal resource for researchers academicians policymakers business professionals companies and students this book presents the select proceedings of the 48th national conference on fluid mechanics and fluid power fmfp 2021 held at bits pilani in december 2021 it covers the topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power the book will be useful for researchers and professionals interested in the broad field of mechanics this is a very good book in der arbeit wird ein ansatz zur planung und bewertung der weaternutzung von prozesswärme über betriebsgrenzen hinweg auf basis der pinch analyse entwickelt er besteht aus einer minimierung der gesamtkosten inklusive der parameter entfernungen und ausfallrisiken zusätzlich wird eine faire aufteilung der einsparungen diskutiert die methodik wird auf ein fallbeispiel angewendet daneben werden die allgemeinen rahmenbedingungen und hemmnisse der außerbetrieblichen abwärmenutzung untersucht this book features selected papers presented at the 15th international conference on electromechanics and robotics zavalishin's readings er zr 2020 held in ufa russia on 15 18 april 2020 the contributions written by professionals researchers and students cover topics in the field of automatic control systems electromechanics electric power engineering and electrical engineering mechatronics robotics automation and vibration technologies the zavalishin's readings conference was established as a tribute to the memory of dmitry aleksandrovich zavalishin 1900 1968 a russian scientist corresponding member of the ussr academy of sciences and founder of the school of valve energy converters based on electric machines and valve converters energy the first conference was organized by the institute of innovative technologies in electromechanics and robotics at the saint petersburg state university of aerospace instrumentation in 2006 process instrumentation control and automation is a component of encyclopedia of water sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the volume presents state of the art subject matter of various aspects of process instrumentation control and automation such as availability analysis of msf distillers using fault tree logic control schemes of cogenerating power plants for desalination fault diagnosis using artificial intelligence in thermal desalination systems fault diagnosis in chemical processes its relation to thermal desalination systems introduction to process control fundamentals of control theory process control systems control valves actuators control valve positioners automation and control of thermal processes automation and control of electric power generation and distribution systems steam turbines combined cycle and combined heat and power processes fault detection and diagnostics of failures this volume is aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy and decision makers process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes the book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students this encyclopedia of

control systems robotics and automation is a component of the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias this 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations it is the only publication of its kind carrying state of the art knowledge in the fields of control systems robotics and automation and is aimed by virtue of the several applications at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos research on free living plants and parasitic nematodes in the soil environment food security and nematode plant interactions is increasing in importance plant nematode interactions heavily impact nutrient availability crop production and soil health the scenarios of work with plant and soil nematodes clarify the primary in vitro and in vivo techniques with plant parasitic free living soil nematodes nematode plant interactions and controlling infection illustrates the techniques and recent methodologies as well as the interaction between host and nematodes to achieve nematode invasion in plants it further investigates the role of the plant in confronting nematodes upon penetration the challenges that face infected plants to resist nematode invasion and the risk of transmission of nematodes covering topics such as biological control molecular plant pathology and organic farming systems this premier reference source is an essential resource for crop producers agrochemical professionals agricultural scientists botanists plant breeders biologists students and academicians of higher education librarians researchers and academicians in a world experiencing increasingly intense hydrometeorological events driven by climate change the need for effective solutions is paramount modeling and monitoring extreme hydrometeorological events presents a cutting edge exploration of the challenges posed by flash droughts and floods offering innovative methodologies and tools to address these global issues through a combination of computer modeling remote sensing artificial intelligence and case studies this book provides a comprehensive framework for understanding and mitigating the impacts of extreme hydrometeorological events it examines the rapid emergence of flash droughts which bring devastating consequences to agriculture water resources ecosystems and public health the book also delves into the complex dynamics of flash floods exploring their causes impacts and potential solutions with a focus on water management the book addresses knowledge gaps provides adaptation and mitigation strategies and emphasizes the importance of climate change considerations it aims to empower scientists policymakers professionals and educators to develop effective policies and decision making frameworks to combat the increasing risks posed by extreme hydrometeorological events written by a diverse team of experts in hydrology hydrometeorology emergency management civil engineering and related fields this book offers valuable insights and practical tools for researchers professors graduate students policymakers and professionals technological advances an increasingly globalized workforce and seismic global events mean that change is a constant feature of business life today the consequences of not managing change effectively can be devastating for businesses how can managers deal with change brought about by unpredictable events how can they embrace change and communicate its benefits to stakeholders how can organizations ensure the ongoing success of change john hayes s bestselling textbook equips you with the practical tools and academic knowledge to tackle these questions and many more offering unrivalled breadth it will guide you clearly through all stages of the change process from recognizing the need for change to ensuring its successful implementation its unique underpinning framework based on a process model of change will help you to view change as purposeful and ordered rather than something chaotic and unmanageable this sixth edition covers all of the key theories tools and techniques of organizational change and offers everything you need to know about organizational change today brand new international case studies and examples allow you to understand change in context coverage of big bang disruptions offers you a framework for dealing with unforeseen global events like pandemics economic instability and climate change updated research reports show you the latest theory in the field new learning objectives reflective questions and experiential exercises help you to consolidate your learning and revise effectively increased coverage of smes public sector and family businesses shows you change in diverse sectors the earth sciences industry faces a new challenge the need for accurate efficient and reliable methods to monitor and predict geological phenomena and environmental changes as climate change earthquakes and other natural disasters become more frequent and severe the necessity for advanced tools and techniques is paramount traditional methods often fall short in providing the precision and speed required to address these critical issues geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence ai to revolutionize their field will find the solution within the pages of novel ai applications for advancing earth sciences this book offers the research community concepts expanding upon the fusion of ai technology with earth sciences by leveraging advanced ai tools such as convolutional

neural networks support vector machines artificial neural networks and the potential of remote sensing satellites this book transforms the identification of geological features geological mapping soil classification and gas detection scientists can now predict earthquakes and assess the probability of climate change with unprecedented accuracy additionally the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations leading to an unprecedented leap in accuracy and efficiency

quantitative models are increasingly being used to assess the impact of socioeconomic development pathways on biodiversity and environmental services regardless of the scenario the decline of biodiversity will continue throughout the 21st century land use changes drive biodiversity changes in terrestrial systems while overfishing drives changes in marine systems and climate change affects all realms the loss of habitats will lead to local population decreases and global extinctions will occur at unpredictable rates due to the lag between environmental changes and their effects to address this we need to focus more on the relationship between the decline of ecosystem services and the position of species responsible for that function in the trophic hierarchy perspectives on global biodiversity scenarios and environmental services in the 21st century makes biodiversity scenarios understandable relevant and valuable to stakeholders by using effective language and focused communication techniques instead of merely showing the potential effects of global change on biodiversity scenarios should consider the feedback connecting environmental forces biodiversity provides numerous essential environmental services crucial to human well being both now and in the future the climate is a critical component of ecosystem functioning and directly and indirectly affects human health the target audience includes biology and environmental science students and faculty scientists social workers who generate and collaborate on biodiversity scenarios policymakers and corporations with a basic science understanding this book explores dental stem cell dsc biology from a review of basic concepts for cell culture to isolation self renewal multipotency and differentiation regulation by molecular medicine and prospective research areas for regenerative medicine the first seven chapters delve into basic dsc properties vital signaling pathways involved in differentiation pluripotency ips cell development from dscs and genetic engineering approaches of dscs in accordance with the current literature a comprehensive review of possible clinical applications and in vitro in vivo studies follows illustrating the future of dsc research for in the tissue engineering field the text also discusses the political ethical social and legal ramifications of the use of dental stem cells expertly authored and drawing from a multitude of international perspectives dental stem cells is an invaluable addition to springer s stem cell biology and regenerative medicine series it is essential reading for advanced graduate students basic researchers and clinical investigators in the fields of stem cell therapy biological sciences of dentistry and regenerative medicine

2010 a comprehensive handbook on state of the art das technology and applications distributed acoustic sensing das is a technology that records sound and vibration signals along a fiber optic cable its advantages of high resolution continuous and real time measurements mean that das systems have been rapidly adopted for a range of applications including hazard mitigation energy industries geohydrology environmental monitoring and civil engineering distributed acoustic sensing in geophysics methods and applications presents experiences from both industry and academia on using das in a range of geophysical applications volume highlights include das concepts principles and measurements comprehensive review of the historical development of das and related technologies das applications in hydrocarbon geothermal and mining industries das applications in seismology das applications in environmental and shallow geophysics the american geophysical union promotes discovery in earth and space science for the benefit of humanity its publications disseminate scientific knowledge and provide resources for researchers students and professionals sustainable nanotechnology a robust examination of the use of nanotechnology in the manufacture of sustainable products in sustainable nanotechnology strategies products and applications a team of distinguished researchers delivers a comprehensive and up to date exploration of nanotechnology applications in environmental pharmaceutical and engineering products in the context of global sustainability the book offers balanced coverage of the benefits and risks of nanotechnology divided into three parts the editors have included contributions from leading scholars discussing sustainability toxicological impacts and nanomaterial based adsorbents this edited volume helps readers understand how nanotechnology and nanomaterials apply in different global sustainability challenges it also discusses models for understanding the lifecycle and risk assessments of manufactured nanomaterials case studies are included to explore such topics as design remediation and technology assessment the book also provides thorough introductions to

nanotechnology based research priorities for global sustainability and the challenges and opportunities of modern sustainable nanotechnology comprehensive explorations of improving the sustainability of bio based products with nanotechnology and the improvement of the environmental sustainability of biopolymers using nanotechnology practical discussions of nanotechnology based polymers for drug delivery applications in depth examinations of green nanotechnology driven drug delivery systems perfect for nanotechnology focused professionals sustainability experts biomedical experts and pharmaceutical industry practitioners sustainable nanotechnology strategies products and applications will also earn a place in the libraries of neuroscientists bioengineering professionals and those involved in neuroprosthetic engineering the metaverse has emerged as an influential force beckoning entrepreneurs to navigate uncharted territories platform and gaming companies strategically position themselves to take advantage of the metaverse s potential indicating that this shift transcends mere trendiness the metaverse isn t confined to the realms of conceptuality or viral discussions anymore it signifies a monumental revolution poised to reshape society and humanity at large as entrepreneurs fervently adopt artificial intelligence an unprecedented wave of creativity ensues redefining the very fabric of business yet with this surge comes a cascade of myths and challenges that shape the metaverse s entrepreneurial landscape spanning technological intricacies cultural dynamics and ethical considerations the book titled new business frontiers in the metaverse aims to demystify the metaverse s complexities moving beyond the speculative buzz surrounding the metaverse the book unfolds as a dynamic exploration of the relationship between entrepreneurship and this digital frontier by addressing the myths and challenges head on it seeks to provide a comprehensive understanding of the dimensions that entrepreneurs will confront in the metaverse through an exploration of integrated technologies like nfts 4 0 augmented reality virtual reality and mixed reality the book offers a unique perspective on how these innovations intertwine to shape the metaverse s entrepreneurial landscape in an era where technology and hospitality converge the models of travel and lodging are undergoing a transformative shift known as hybrid hospitality as modern travelers expectations evolve and digital transformation becomes a cornerstone across industries the infusion of technology into hospitality is not merely an option but an imperative a comprehensive resource is needed to explore the compelling forces driving the demand for enhanced technological capabilities within hybrid hospitality specifically focusing on artificial intelligence ai utilizing smart technology and ai in hybrid tourism and hospitality delves into various themes integral to this investigation from delivering personalized experiences to ensuring productivity and security in global hospitality it directs attention to the infinite business opportunities unfolding worldwide and technology s profound impact on the tourism sector embark on a journey through the pages of this comprehensive guide to understand why the seamless integration of technology is preferable and an essential foundation for elevating guest satisfaction and reshaping the global hospitality this book provides an overview of the ecological indicators of landscape dynamics in the context of geographical landscape integration landscape dynamics depicts every change that occurs in the physical biological and cognitive assets of a landscape to understand and interpret the complex physical biological and cognitive phenomena of landscapes it is necessary to operate conceptually and practically on a broad range of spatial and temporal scales rapid land use changes have become a concern to environmentalists and planners because of their impacts on the natural ecosystem which further determines socioeconomic dynamics in this regard the book discusses case studies that share new insights into how landscape patterns and processes impact small creatures and how small creatures in turn influence landscape structure and composition in turn the relevant aspects of land use and land cover dynamics are covered and the multi faceted relationship between the substrata and ecological community is highlighted the book is unique in its focus on the application of spatial informatics such as automatic building extraction from high resolution imagery a soil resource inventory for meeting the challenges of land degradation hydrological modeling the temporal variation analysis of glacier area and the identification and mapping of glacial lakes morphometric analysis of river basins and the monitoring and modeling of urban sprawl among other features a series of calamities has in recent years had an impact on business performance this book explores strategies and business responses in times of crisis the covid 19 pandemic and the hyper competitive market environment have compelled organizations and industries to redraw the limits of their operational and strategic activities organizations in emerging markets are facing a great challenge in keeping their businesses afloat in these difficult times this book offers an insight into how businesses and markets have been affected globally focusing especially on emerging countries and markets it presents an assessment of how they can adapt their strategies to respond to the current trends and crises examining effective management techniques and practices consumer behavior supply chain and human resources management from an interdisciplinary perspective the book draws links between businesses consumers

and academic theories on business management marketing and consumer studies this book will be an indispensable resource for managers in different sectors it will also be of interest to researchers and students of business studies management studies marketing strategic management global business outsourcing global business environment besides being of use to government agencies practicing managers and research agencies this book provides recent trends and innovation in solar energy it covers the basic principles and applications of solar energy systems various topics covered in this book include introduction and overview of solar energy solar pv generation solar thermal generation innovative applications of solar energy smart energy system smart grid and sustainability solar energy forecasting advances in solar battery thermal storage of solar energy solar energy pricing advances in hybrid solar system solar system tracking for maximum power generation phase change materials and its application sensitivity analysis in solar systems environmental feasibility of solar hybrid systems regulatory implications of solar energy integration with grid impact of the photovoltaic integration on the hydrothermal dispatch on power systems and potential and financial evaluation of floating solar pv in thailand a case study this book will be useful for the students academicians researchers policymakers economists and professionals working in the area of solar energy

Basic Electrical Engineering | AICTE Prescribed Textbook (English) 2021-08-27

this textbook basic electrical engineering is based on the latest syllabus of the universities aicte and educational institutes in this edition some material of the book has been rewritten to make the presentation easily comprehensible more illustrative examples mainly from ias ies and gate and other competitive examinations have been added various problems with answers have been added to support the text for quick revision summary highlights are given at the end of each chapter salient features dc circuits ac circuits transformers electrical machines power converters electrical installations

Basic Electrical Engineering 2015

attuned to the needs of undergraduate students of engineering in their first year basic electrical engineering enables them to build a strong foundation in the subject a large number of real world examples illustrate the applications of complex theories the book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

Electrical Machines 2017-11-24

offers key concepts of electrical machines embedded with solved examples review questions illustrations and open book questions

Fundamentals of Electrical Engineering 2010-02

attuned to the needs of undergraduate students of engineering in their first year basic electrical engineering enables them to build a strong foundation in the subject a large number of real world examples illustrate the applications of complex theories the book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

Basic Electrical Engineering (Vel Tech) 2021-03-31

this book presents select proceedings of the international conference on future learning aspects of mechanical engineering flame 2020 the book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics finite element modeling computer aided engineering and analysis fracture mechanics and vibration the book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field

Advances in Engineering Design 2022-03-22

this book presents the select proceedings of the international conference on advanced production and industrial engineering icapie 2021 held at delhi technological university delhi during june 18 19 2021 the book covers the recent advances and challenges in the area of production and industrial engineering various topics covered include artificial intelligence and expert systems cad cam integration technology cad cam automation and robotics computer aided geometric design and simulation construction machinery and equipment design tools cutting tool material and coatings dynamic mechanical analysis optimization and control energy machinery and equipment flexible manufacturing technology and system fluid dynamics bio fuels fuel cells high speed precision machining laser processing technology logistics and supply chain management machinability of materials composite materials material engineering mechanical dynamics and its applications mechanical power engineering mechanical transmission theory and applications non traditional machining processes operations management precision manufacturing and measurement precision manufacturing and measurement reverse engineering and structural strength and robustness this book is useful for various researcher mainly mechanical and allied engineering discipline

Advances in Mechanical Engineering and Technology 2023-10-06

the world is facing unprecedented environmental and social challenges that threaten our

ability to achieve a sustainable future for all issues like climate change resource depletion and social inequality require urgent action but technology while a potential solution also introduces new risks promoting sustainable management through technological innovation offers a comprehensive solution by exploring the benefits and risks of technology emphasizing ethical considerations and providing insights and recommendations for policymakers business leaders and researchers to harness technological innovation for sustainability this book contributes to the ongoing conversation around sustainable development by guiding policymakers in developing effective policies assisting business leaders in implementing sustainable practices and providing researchers with a comprehensive overview of current research it serves as a valuable resource for academic scholars and professionals interested in the intersection of technology and sustainability policymakers can shape policies promoting sustainability business leaders can integrate sustainable practices and innovation researchers can gain insights for further investigation and educators can utilize it in sustainability and technology courses overall the book serves as a key reference guiding readers toward responsible and effective solutions that leverage technology for a more sustainable future

Promoting Sustainable Management Through Technological Innovation 1987

the ever evolving field of management in today's corporate world is marked by constant disruptions and turbulence the emergence of artificial intelligence ai and emotional intelligence ei presents opportunities for automation optimization and effective leadership but it also raises concerns about job displacement and the need to bridge the gap between these two domains ai and emotional intelligence for modern business management bridging the gap and nurturing success offers solutions to closing the knowledge gap this book provides comprehensive insights and practical strategies to academic scholars researchers practitioners educators and students targeting a diverse audience this book serves as a solution oriented resource for navigating the complexities of ai and ei in business management by addressing both ai and ei the book equips readers with the necessary tools to integrate these domains seamlessly into modern business management practices stimulating informed discussions inspiring innovative approaches and fostering a deeper understanding of the opportunities and challenges posed by these emerging fields

Directory of Indian Engineering Exporters 1935

this book constitutes the refereed proceedings of the 11th international conference on computer vision systems icvs 2017 held in shenzhen china in july 2017 the 61 papers presented were carefully reviewed and selected from 92 submissions the papers are organized in topical sections on visual control visual navigation visual inspection image processing human robot interaction stereo system image retrieval visual detection visual recognition system design and 3d vision fusion

Punjab Industries 2023-10-16

there is no industry left where artificial intelligence is not used in some capacity the application of this technology has already stretched across a multitude of domains including law and policy it will soon permeate areas beyond anyone's imagination technology giants such as google apple and facebook are already investing their money effort and time toward integrating artificial intelligence as this technology continues to develop and expand it is critical for everyone to understand the various applications of artificial intelligence and its full potential the handbook of research on innovative management using ai in industry 5.0 uncovers new and innovative features of artificial intelligence and how it can help in raising economic efficiency at both micro and macro levels and provides a deeper understanding of the relevant aspects of artificial intelligence impacting efficacy for better output covering topics such as consumer behavior information technology and personalized banking it is an ideal resource for researchers academicians policymakers business professionals companies and students

AI and Emotional Intelligence for Modern Business Management 2017-10-10

this book presents the select proceedings of the 48th national conference on fluid mechanics and fluid power fmfpp 2021 held at bits pilani in december 2021 it covers the

topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power the book will be useful for researchers and professionals interested in the broad field of mechanics

Computer Vision Systems 2021-11-19

this is a very good book

Handbook of Research on Innovative Management Using AI in Industry 5.0 2023-05-20

in der arbeit wird ein ansatz zur planung und bewertung der weaternutzung von prozesswärme über betriebsgrenzen hinweg auf basis der pinch analyse entwickelt er besteht aus einer minimierung der gesamtkosten inklusive der parameter entfernungen und ausfallrisiken zusätzlich wird eine faire aufteilung der einsparungen diskutiert die methodik wird auf ein fallbeispiel angewendet daneben werden die allgemeinen rahmenbedingungen und hemmnisse der außerbetrieblichen abwärmenutzung untersucht

Fluid Mechanics and Fluid Power (Vol. 2) 1964

this book features selected papers presented at the 15th international conference on electromechanics and robotics zavalishin s readings er zr 2020 held in ufa russia on 15 18 april 2020 the contributions written by professionals researchers and students cover topics in the field of automatic control systems electromechanics electric power engineering and electrical engineering mechatronics robotics automation and vibration technologies the zavalishin s readings conference was established as a tribute to the memory of dmitry aleksandrovich zavalishin 1900 1968 a russian scientist corresponding member of the ussr academy of sciences and founder of the school of valve energy converters based on electric machines and valve converters energy the first conference was organized by the institute of innovative technologies in electromechanics and robotics at the saint petersburg state university of aerospace instrumentation in 2006

Indian Engineering and Industries Guide 2020-01-19

process instrumentation control and automation is a component of encyclopedia of water sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the volume presents state of the art subject matter of various aspects of process instrumentation control and automation such as availability analysis of msf distillers using fault tree logic control schemes of cogenerating power plants for desalination fault diagnosis using artificial intelligence in thermal desalination systems fault diagnosis in chemical processes its relation to thermal desalination systems introduction to process control fundamentals of control theory process control systems control valves actuators control valve positioners automation and control of thermal processes automation and control of electric power generation and distribution systems steam turbines combined cycle and combined heat and power processes fault detection and diagnostics of failures this volume is aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy and decision makers

Mera Meerut 2014-06-04

process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes the book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students

Energieeffizienz durch Planung betriebsübergreifender Prozessintegration mit der Pinch-Analyse 1989

this encyclopedia of control systems robotics and automation is a component of the global encyclopedia of life support systems eolss which is an integrated compendium of

twenty one encyclopedias this 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations it is the only publication of its kind carrying state of the art knowledge in the fields of control systems robotics and automation and is aimed by virtue of the several applications at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

Proceedings of the Silver Jubilee Convention, January 5-7, 1989 2020-09-01

research on free living plants and parasitic nematodes in the soil environment food security and nematode plant interactions is increasing in importance plant nematode interactions heavily impact nutrient availability crop production and soil health the scenarios of work with plant and soil nematodes clarify the primary in vitro and in vivo techniques with plant parasitic free living soil nematodes nematode plant interactions and controlling infection illustrates the techniques and recent methodologies as well as the interaction between host and nematodes to achieve nematode invasion in plants it further investigates the role of the plant in confronting nematodes upon penetration the challenges that face infected plants to resist nematode invasion and the risk of transmission of nematodes covering topics such as biological control molecular plant pathology and organic farming systems this premier reference source is an essential resource for crop producers agrochemical professionals agricultural scientists botanists plant breeders biologists students and academicians of higher education librarians researchers and academicians

Proceedings of 15th International Conference on Electromechanics and Robotics "Zavalishin's Readings" 2010-05-10

in a world experiencing increasingly intense hydrometeorological events driven by climate change the need for effective solutions is paramount modeling and monitoring extreme hydrometeorological events presents a cutting edge exploration of the challenges posed by flash droughts and floods offering innovative methodologies and tools to address these global issues through a combination of computer modeling remote sensing artificial intelligence and case studies this book provides a comprehensive framework for understanding and mitigating the impacts of extreme hydrometeorological events it examines the rapid emergence of flash droughts which bring devastating consequences to agriculture water resources ecosystems and public health the book also delves into the complex dynamics of flash floods exploring their causes impacts and potential solutions with a focus on water management the book addresses knowledge gaps provides adaptation and mitigation strategies and emphasizes the importance of climate change considerations it aims to empower scientists policymakers professionals and educators to develop effective policies and decision making frameworks to combat the increasing risks posed by extreme hydrometeorological events written by a diverse team of experts in hydrology hydrometeorology emergency management civil engineering and related fields this book offers valuable insights and practical tools for researchers professors graduate students policymakers and professionals

PROCESS INSTRUMENTATION, CONTROL AND AUTOMATION - Volume I 2017-09-25

technological advances an increasingly globalized workforce and seismic global events mean that change is a constant feature of business life today the consequences of not managing change effectively can be devastating for businesses how can managers deal with change brought about by unpredictable events how can they embrace change and communicate its benefits to stakeholders how can organizations ensure the ongoing success of change john hayes s bestselling textbook equips you with the practical tools and academic knowledge to tackle these questions and many more offering unrivalled breadth it will guide you clearly through all stages of the change process from recognizing the need for change to ensuring its successful implementation its unique underpinning framework based on a process model of change will help you to view change as purposeful and ordered rather than something chaotic and unmanageable this sixth edition covers all of the key theories tools and techniques of organizational change and offers everything you need to know about organizational change today brand new international case studies and examples allow you to understand change in context

coverage of big bang disruptions offers you a framework for dealing with unforeseen global events like pandemics economic instability and climate change updated research reports show you the latest theory in the field new learning objectives reflective questions and experiential exercises help you to consolidate your learning and revise effectively increased coverage of smes public sector and family businesses shows you change in diverse sectors

Process Synthesis and Process Intensification 2009-10-11

the earth sciences industry faces a new challenge the need for accurate efficient and reliable methods to monitor and predict geological phenomena and environmental changes as climate change earthquakes and other natural disasters become more frequent and severe the necessity for advanced tools and techniques is paramount traditional methods often fall short in providing the precision and speed required to address these critical issues geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence ai to revolutionize their field will find the solution within the pages of novel ai applications for advancing earth sciences this book offers the research community concepts expanding upon the fusion of ai technology with earth sciences by leveraging advanced ai tools such as convolutional neural networks support vector machines artificial neural networks and the potential of remote sensing satellites this book transforms the identification of geological features geological mapping soil classification and gas detection scientists can now predict earthquakes and assess the probability of climate change with unprecedented accuracy additionally the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations leading to an unprecedented leap in accuracy and efficiency

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume 2023-10-11

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Nematode-Plant Interactions and Controlling Infection 2024-01-10

quantitative models are increasingly being used to assess the impact of socioeconomic development pathways on biodiversity and environmental services regardless of the scenario the decline of biodiversity will continue throughout the 21st century land use changes drive biodiversity changes in terrestrial systems while overfishing drives changes in marine systems and climate change affects all realms the loss of habitats will lead to local population decreases and global extinctions will occur at unpredictable rates due to the lag between environmental changes and their effects to address this we need to focus more on the relationship between the decline of ecosystem services and the position of species responsible for that function in the trophic hierarchy perspectives on global biodiversity scenarios and environmental services in the 21st century makes biodiversity scenarios understandable relevant and valuable to stakeholders by using effective language and focused communication techniques instead of merely showing the potential effects of global change on biodiversity scenarios should consider the feedback connecting environmental forces biodiversity provides numerous essential environmental services crucial to human well being both now and in the future the climate is a critical component of ecosystem functioning and directly and indirectly affects human health the target audience includes biology and environmental science students and faculty scientists social workers who generate and collaborate on biodiversity scenarios policymakers and corporations with a basic science understanding

Modeling and Monitoring Extreme Hydrometeorological Events 2021-12-29

this book explores dental stem cell dsc biology from a review of basic concepts for cell culture to isolation self renewal multipotency and differentiation regulation by molecular medicine and prospective research areas for regenerative medicine the first seven chapters delve into basic dsc properties vital signaling pathways involved in differentiation pluripotency ips cell development from dscs and genetic engineering approaches of dscs in accordance with the current literature a comprehensive review of possible clinical applications and in vitro in vivo studies follows illustrating the

future of dsc research for in the tissue engineering field the text also discusses the political ethical social and legal ramifications of the use of dental stem cells expertly authored and drawing from a multitude of international perspectives dental stem cells is an invaluable addition to springer s stem cell biology and regenerative medicine series it is essential reading for advanced graduate students basic researchers and clinical investigators in the fields of stem cell therapy biological sciences of dentistry and regenerative medicine

The Theory and Practice of Change Management 2023-12-29

2020年12月29日出版 本书是“变革管理”领域的权威著作 由多位国际知名学者共同撰写 内容涵盖了变革管理的理论、实践、案例以及最新的研究成果 本书共分为4个部分 第一部分介绍了变革管理的基本概念和理论 第二部分探讨了变革管理的实践方法和工具 第三部分通过多个案例分析了变革管理的成功经验和失败教训 第四部分则展望了未来变革管理的发展趋势和挑战 本书适合企业管理者、学者、研究人员以及从事变革管理工作的专业人士阅读

Novel AI Applications for Advancing Earth Sciences 2003-03

a comprehensive handbook on state of the art das technology and applications distributed acoustic sensing das is a technology that records sound and vibration signals along a fiber optic cable its advantages of high resolution continuous and real time measurements mean that das systems have been rapidly adopted for a range of applications including hazard mitigation energy industries geohydrology environmental monitoring and civil engineering distributed acoustic sensing in geophysics methods and applications presents experiences from both industry and academia on using das in a range of geophysical applications volume highlights include das concepts principles and measurements comprehensive review of the historical development of das and related technologies das applications in hydrocarbon geothermal and mining industries das applications in seismology das applications in environmental and shallow geophysics the american geophysical union promotes discovery in earth and space science for the benefit of humanity its publications disseminate scientific knowledge and provide resources for researchers students and professionals

CMOS Nanotechnology 2023-11-01

sustainable nanotechnology a robust examination of the use of nanotechnology in the manufacture of sustainable products in sustainable nanotechnology strategies products and applications a team of distinguished researchers delivers a comprehensive and up to date exploration of nanotechnology applications in environmental pharmaceutical and engineering products in the context of global sustainability the book offers balanced coverage of the benefits and risks of nanotechnology divided into three parts the editors have included contributions from leading scholars discussing sustainability toxicological impacts and nanomaterial based adsorbents this edited volume helps readers understand how nanotechnology and nanomaterials apply in different global sustainability challenges it also discusses models for understanding the lifecycle and risk assessments of manufactured nanomaterials case studies are included to explore such topics as design remediation and technology assessment the book also provides thorough introductions to nanotechnology based research priorities for global sustainability and the challenges and opportunities of modern sustainable nanotechnology comprehensive explorations of improving the sustainability of bio based products with nanotechnology and the improvement of the environmental sustainability of biopolymers using nanotechnology practical discussions of nanotechnology based polymers for drug delivery applications in depth examinations of green nanotechnology driven drug delivery systems perfect for nanotechnology focused professionals sustainability experts biomedical experts and pharmaceutical industry practitioners sustainable nanotechnology strategies products and applications will also earn a place in the libraries of neuroscientists bioengineering professionals and those involved in neuroprosthetic engineering

Perspectives on Global Biodiversity Scenarios and Environmental Services in the 21st Century 1988

the metaverse has emerged as an influential force beckoning entrepreneurs to navigate uncharted territories platform and gaming companies strategically position themselves to take advantage of the metaverse s potential indicating that this shift transcends mere trendiness the metaverse isn t confined to the realms of conceptuality or viral discussions anymore it signifies a monumental revolution poised to reshape society and humanity at large as entrepreneurs fervently adopt artificial intelligence an

unprecedented wave of creativity ensues redefining the very fabric of business yet with this surge comes a cascade of myths and challenges that shape the metaverse's entrepreneurial landscape spanning technological intricacies cultural dynamics and ethical considerations the book titled new business frontiers in the metaverse aims to demystify the metaverse's complexities moving beyond the speculative buzz surrounding the metaverse the book unfolds as a dynamic exploration of the relationship between entrepreneurship and this digital frontier by addressing the myths and challenges head on it seeks to provide a comprehensive understanding of the dimensions that entrepreneurs will confront in the metaverse through an exploration of integrated technologies like nfts 4 0 augmented reality virtual reality and mixed reality the book offers a unique perspective on how these innovations intertwine to shape the metaverse's entrepreneurial landscape

Directory of Indian Exporters 2016-06-08

in an era where technology and hospitality converge the models of travel and lodging are undergoing a transformative shift known as hybrid hospitality as modern travelers' expectations evolve and digital transformation becomes a cornerstone across industries the infusion of technology into hospitality is not merely an option but an imperative a comprehensive resource is needed to explore the compelling forces driving the demand for enhanced technological capabilities within hybrid hospitality specifically focusing on artificial intelligence ai utilizing smart technology and ai in hybrid tourism and hospitality delves into various themes integral to this investigation from delivering personalized experiences to ensuring productivity and security in global hospitality it directs attention to the infinite business opportunities unfolding worldwide and technology's profound impact on the tourism sector embark on a journey through the pages of this comprehensive guide to understand why the seamless integration of technology is preferable and an essential foundation for elevating guest satisfaction and reshaping the global hospitality

Dental Stem Cells 2000-10-18

this book provides an overview of the ecological indicators of landscape dynamics in the context of geographical landscape integration landscape dynamics depicts every change that occurs in the physical biological and cognitive assets of a landscape to understand and interpret the complex physical biological and cognitive phenomena of landscapes it is necessary to operate conceptually and practically on a broad range of spatial and temporal scales rapid land use changes have become a concern to environmentalists and planners because of their impacts on the natural ecosystem which further determines socioeconomic dynamics in this regard the book discusses case studies that share new insights into how landscape patterns and processes impact small creatures and how small creatures in turn influence landscape structure and composition in turn the relevant aspects of land use and land cover dynamics are covered and the multi-faceted relationship between the substrata and ecological community is highlighted the book is unique in its focus on the application of spatial informatics such as automatic building extraction from high resolution imagery a soil resource inventory for meeting the challenges of land degradation hydrological modeling the temporal variation analysis of glacier area and the identification and mapping of glacial lakes morphometric analysis of river basins and the monitoring and modeling of urban sprawl among other features

□□□□ 2022-01-26

a series of calamities has in recent years had an impact on business performance this book explores strategies and business responses in times of crisis the covid 19 pandemic and the hyper-competitive market environment have compelled organizations and industries to redraw the limits of their operational and strategic activities organizations in emerging markets are facing a great challenge in keeping their businesses afloat in these difficult times this book offers an insight into how businesses and markets have been affected globally focusing especially on emerging countries and markets it presents an assessment of how they can adapt their strategies to respond to the current trends and crises examining effective management techniques and practices consumer behavior supply chain and human resources management from an interdisciplinary perspective the book draws links between businesses consumers and academic theories on business management marketing and consumer studies this book will be an indispensable resource for managers in different sectors it will also be of interest to researchers and students of business studies management studies marketing strategic management global business outsourcing global business environment besides

being of use to government agencies practicing managers and research agencies

Distributed Acoustic Sensing in Geophysics 2022-03-29

this book provides recent trends and innovation in solar energy it covers the basic principles and applications of solar energy systems various topics covered in this book include introduction and overview of solar energy solar pv generation solar thermal generation innovative applications of solar energy smart energy system smart grid and sustainability solar energy forecasting advances in solar battery thermal storage of solar energy solar energy pricing advances in hybrid solar system solar system tracking for maximum power generation phase change materials and its application sensitivity analysis in solar systems environmental feasibility of solar hybrid systems regulatory implications of solar energy integration with grid impact of the photovoltaic integration on the hydrothermal dispatch on power systems and potential and financial evaluation of floating solar pv in thailand a case study this book will be useful for the students academicians researchers policymakers economists and professionals working in the area of solar energy

India Major Manufacturers 2024-05-13

Sustainable Nanotechnology 2024-03-06

New Business Frontiers in the Metaverse 2020-03-03

Utilizing Smart Technology and AI in Hybrid Tourism and Hospitality 2024-03-20

Geoecology of Landscape Dynamics 2021-04-12

Building Resilience in Global Business During Crisis 2007-02

Fundamentals and Innovations in Solar Energy

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