

Free ebook Network analysis synthesis by pankaj swarnkar (2023)

this book focuses on various challenges solutions and emerging technologies in the operation control design optimization and protection of microgrids in the presence of hybrid renewable energy sources and electric vehicles this book provides an insight into the potential applications and recent development of different types of renewable energy systems including ac dc microgrids res integration issues with the grid electric vehicle technology etc the book serves as an interdisciplinary platform for the audience working in the focused area to access information related to energy management modeling and control it covers fundamental knowledge design mathematical modeling applications and practical issues with sufficient design problems and case studies with detailed planning aspects this book will serve as a guide for researchers academicians practicing engineers professionals and scientists as well as for graduate and postgraduate students working in the area of various applications of res electric vehicles and ac dc microgrid this book compiles the best selected research papers presented during the 2nd international conference on intelligent computing techniques for smart energy systems ictses 2021 held at manipal university jaipur rajasthan india it presents the diligent work of the research community where intelligent computing techniques are applied in allied fields of engineering ranging from engineering materials to electrical engineering to electronics and communication engineering to computer related fields the theoretical research concepts are supported with extensive reviews highlighting the trends in the possible and real life applications of computational intelligence the high quality content with broad range of the topics is thoroughly peer reviewed and published on suitable recommendations the book compiles the research works related to smart solutions concept in context to smart energy systems maintaining electrical grid discipline and resiliency computational collective intelligence consisted of interaction between smart devices smart environments and smart interactions as well as information technology support for such areas it includes high quality papers presented in the international conference on intelligent computing techniques for smart energy systems organized by manipal university jaipur this book will motivate scholars to work in these areas the book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval the book covers different aspects of real world applications of optimization algorithms it provides insights from the fourth international conference on harmony search soft computing and applications held at bml munjal university gurgaon india on february 7 9 2018 it consists of research articles on novel and newly proposed optimization algorithms the theoretical study of nature inspired optimization algorithms numerically established results of nature inspired optimization algorithms and real world applications of optimization algorithms and synthetic benchmarking of optimization algorithms the book covers the complete syllabus of subject as suggested by most of the universities in india it is mainly written for undergraduate technical students but you will find it helpful to students of post graduation and those who are preparing for competitive exams practising engineers and industry persons would like to refer it since it has many practical examples related to industries space and robotics continuous liner an time invariant systems are discussed in detail while the broad introduction of nonlinear and discrete data systems is also presented the details mathematical description as needed by the subject and the objective type questions for competitive exams are given in appendix this book contains select proceedings of eprec 2021 with a focus on power electronics and drives the book includes original research and case studies that present recent developments in power electronics focusing on power inverters and converters the book also consists of research work on electrical drives regulated power supplies operation of facts hvdc etc the book will be a valuable reference guide for beginners researchers and professionals interested in the advancements of power electronics and drives this book presents select proceedings of the international conference on innovations in clean energy technologies icet 2020 and examines a range of durable energy efficient and next generation smart green technologies for sustainable future by reflecting on the trends advances and development taking place all across the globe the topics covered include smart technologies based product energy efficient systems solar and wind energy carbon sequestration green transportation green buildings energy material biomass energy smart cites hydro power bio energy and fuel cell the book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint the book will be a valuable reference for beginners researchers and professionals interested in clean energy technologies this volume comprises peer reviewed proceedings of the international conference on robotics control automation and artificial intelligence rcaai 2022 it aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the internet of things machine vision cybersecurity robotics circuits and sensors among others this volume will provide a valuable resource for those in academia and industry international conference on energy management renewable resources has been a premium forum for presenting recent advances in renewable based energy systems smart applications of power electronic devices in modern grid systems and ai based control over energy management areas iemre2022 has been an excellent platform to collaborate and showcase high end research giving exposure to interact with the eminent professors technocrats scientists administrators and students throughout the world by the latest innovations in the field of renewable energy and energy management with their applications in worldwide energy sectors iemre

2022 was organized by department of eee ee of institute of engineering management kolkata india for three days in online mode with invited lectures by outstanding speakers from all over the world on emerging areas in the field of renewable energy this book is a collection of select papers from the conference this book presents peer reviewed articles from the 6th international conference on wireless technologies embedded and intelligent systems wits 2020 held at fez morocco it presents original research results new ideas and practical lessons learnt that touch on all aspects of wireless technologies embedded and intelligent systems wits is an international conference that serves researchers scholars professionals students and academicians looking to foster both working relationships and gain access to the latest research results topics covered include telecoms wireless networking electronics multimedia embedded intelligent systems renewable energies explore the prospective developments in energy systems and transportation through an in depth examination of distributed energy resources and electric vehicle analysis and optimisation of network operations this innovative publication explores the realm of renewable energy electric vehicles and their influence on network operations offering valuable perspectives for readers from diverse disciplines this extensive publication delves into the complex interplay between distributed energy resources and electric vehicles evs as well as their incorporation into established power grids the subject matter encompasses a diverse array of topics encompassing the attributes and advantages of distributed energy resources and electric vehicles evs obstacles related to grid integration efficient allocation of resources and strategies pertaining to demand response the book offers a comprehensive exploration of system analysis and optimisation techniques emphasising the effective utilisation of distributed energy resources and electric vehicles evs in energy networks it aims to equip readers with a robust comprehension of strategies to optimise the performance and potential of ders and evs in this context the book focuses on pioneering research and innovative solutions that are at the forefront of enhancing network operations the authors demonstrate the novelty and applicability of their findings through the examination of real world case studies and the utilisation of sophisticated mathematical models this book serves as a highly valuable resource for individuals engaged in research engineering policy making and industry related activities who are interested in effectively navigating the dynamic realm of energy systems and transportation it equips them with the necessary knowledge and insights to make well informed decisions that contribute to the attainment of a sustainable future intelligent renewable energy systems this collection of papers on artificial intelligence and other methods for improving renewable energy systems written by industry experts is a reflection of the state of the art a must have for engineers maintenance personnel students and anyone else wanting to stay abreast with current energy systems concepts and technology renewable energy is one of the most important subjects being studied researched and advanced in today's world from a macro level like the stabilization of the entire world's economy to the micro level like how you are going to heat or cool your home tonight energy specifically renewable energy is on the forefront of the discussion this book illustrates modelling simulation design and control of renewable energy systems employed with recent artificial intelligence ai and optimization techniques for performance enhancement current renewable energy sources have less power conversion efficiency because of its intermittent and fluctuating behavior therefore in this regard the recent ai and optimization techniques are able to deal with data ambiguity noise imprecision and nonlinear behavior of renewable energy sources more efficiently compared to classical soft computing techniques this book provides an extensive analysis of recent state of the art ai and optimization techniques applied to green energy systems subsequently researchers industry persons undergraduate and graduate students involved in green energy will greatly benefit from this comprehensive volume a must have for any library audience engineers scientists managers researchers students and other professionals working in the field of renewable energy this book focuses on both theory and applications in the broad areas of computational intelligence and machine learning the proceedings of the seventh international conference on advanced computing networking and informatics icacni 2019 present research papers in the areas of advanced computing networking and informatics it brings together contributions from scientists professors scholars and students and presents essential information on the topic it also discusses the practical challenges encountered and the solutions used to overcome them the goal being to promote the translation of basic research into applied research and of applied research into practice the works presented here also demonstrate the importance of basic scientific research in a range of fields this book presents select proceedings of international conference on energy material sciences and mechanical engineering emsme 2020 held at national institute of technology delhi various topics covered in this book include clean materials solar energy systems wind energy systems power optimization grid integration of renewable energy smart energy storage technologies artificial intelligence in solar and wind system analysis of clean energy material in environment converter topology modelling and simulation this book will be useful for researchers and professionals working in the areas of solar material science electrical engineering and energy technologies this book presents high quality research papers presented at the 3rd international conference on intelligent computing and advances in communication icac 2020 organized by siksha o anusandhan deemed to be university bhubaneswar odisha india in november 2020 this book brings out the new advances and research results in the fields of theoretical experimental and applied signal and image processing soft computing networking and antenna research moreover it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies this book is associated with the cybersecurity issues and provides a wide view of the novel cyber attacks and the

defense mechanisms especially ai based intrusion detection systems ids features a systematic overview of the state of the art ids proper explanation of novel cyber attacks which are much different from classical cyber attacks proper and in depth discussion of ai in the field of cybersecurity introduction to design and architecture of novel ai based ids with a transparent view of real time implementations covers a wide variety of ai based cyber defense mechanisms especially in the field of network based attacks iot based attacks multimedia attacks and blockchain attacks this book serves as a reference book for scientific investigators who need to analyze ids as well as researchers developing methodologies in this field it may also be used as a textbook for a graduate level course on information security this book reviews the role of glial cells astrocytes microglia oligodendroglia satellite cells and schwann cells in neuronal health and diseases it discusses the latest advances in understanding their origin differentiation and hemostasis the book also examines the role of microglial cells in central nervous system cns development maintenance and synaptic plasticity further the book presents the functions of astrocytes in healthy cns and their critical role in cns disorders including parkinson s and alzheimer s diseases notably the book describes the pathobiology molecular pathogenesis stem cells and imaging characteristics of gliomas it defines the role of glial cells in regulating iron homeostasis and their effect on the neurodegeneration of neurons lastly it covers the structure function and pathology of oligodendrocytes and their role in neuronal health and disease microorganisms are a major part of the earth s biological diversity although a lot of research has been done on microbial diversity most of it is fragmented this book creates the need for a unified text to be published full of information about microbial diversity from highly reputed and impactful sources recent advancements in microbial diversity brings a comprehensive understanding of the recent advances in microbial diversity research focused on different bodily systems such as the gut recent advancements in microbial diversity also discusses how the application of advanced sequencing technologies is used to reveal previously unseen microbial diversity and show off its function gives insight into microbial diversity in different bodily systems explains novel approaches to studying microbial diversity highlights the use of omics to analyze the microbial community and its functional attributes discusses the techniques used to examine microbial diversity including their applications and respective strengths and weaknesses plant microbe interaction is a powerful and promising link to mitigate the various kinds of stresses like drought salinity heavy metals and pathogenic effects it is more beneficial for crop improvement and sustainable approaches for reclamation of problematic soils taking a multidisciplinary approach this book explores the recent uses of plant microbe interactions in ecological and agricultural revitalization beyond normal agriculture practices and offers practical and applied solutions for the restoration of degraded land to fulfill human needs with food fodder fuel and fiber it provides a single comprehensive platform for soil scientists agriculture specialists ecologists and those in related disciplines features presents cutting edge microbial biotechnology as a tool for restoring degraded lands explores the aspects of sustainable development of degraded lands using microbe inspired land remediation highlights sustainable food production intensification in nutrient poor lands through the innovative use of microbial inoculants explains the remediation of polluted land for regaining biodiversity and achieving united nations sustainable development goals includes many real life applications from south asia offering solutions to today s agricultural problems this book will be of interest to professionals researchers and students in environmental soil and agricultural sciences as well as stakeholders policy makers and practitioners with an interest in this field this new edition is a complete guide to paediatric dentistry for undergraduate and postgraduate dental students divided into nineteen sections the book begins with an introduction to the specialty oral examination teeth identification and numbering imaging and growth and development of a child s face mouth and teeth the next chapters discuss diet and nutrition plaque control and fluorides and dental caries dental subspecialties including endodontics orthodontics restorative dentistry periodontics and surgery each have their own dedicated sections the concluding chapters cover oral pathology forensics lasers dental advances and research the fourth edition has been fully revised to provide the latest information in the field and features many new topics including zirconia crowns revascularisation and pulp regeneration silver diamine fluoride general anaesthesia and presurgical nasoalveolar moulding in the management of cleft lip and palate key points complete guide to paediatric dentistry for dental students fully revised fourth edition with many new topics highly illustrated with more than 1000 clinical photographs diagrams and tables previous edition 9789351522324 published in 2014 the papers in these two volumes were presented at the international conference on nexgen technologies for mining and fuel industries nxgnmifu 2017 in new delhi from february 15 17 2017 organized by csir central institute of mining and fuel research dhanbad india the proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies the major issues focused on are innovative mining technology rock mechanics and stability analysis advances in explosives and blasting mine safety and risk management computer simulation and mine automation natural resource management for sustainable development environmental impacts and remediation paste fill technology and waste utilisation fly ash management clean coal initiatives mineral processing and coal beneficiation quality coal for power generation and conventional and non conventional fuels and gases this collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences supervised and unsupervised data engineering for multimedia data explore the cutting edge realms of data engineering in multimedia with supervised and unsupervised data engineering for multimedia data where expert contributors delve into innovative

methodologies offering invaluable insights to empower both novices and seasoned professionals in mastering the art of manipulating multimedia data with precision and efficiency supervised and unsupervised data engineering for multimedia data presents a groundbreaking exploration into the intricacies of handling multimedia data through the lenses of both supervised and unsupervised data engineering authored by a team of accomplished experts in the field this comprehensive volume serves as a go to resource for data scientists computer scientists and researchers seeking a profound understanding of cutting edge methodologies the book seamlessly integrates theoretical foundations with practical applications offering a cohesive framework for navigating the complexities of multimedia data readers will delve into a spectrum of topics including artificial intelligence machine learning and data analysis all tailored to the challenges and opportunities presented by multimedia datasets from foundational principles to advanced techniques each chapter provides valuable insights making this book an essential guide for academia and industry professionals alike whether you re a seasoned practitioner or a newcomer to the field supervised and unsupervised data engineering for multimedia data illuminates the path toward mastery in manipulating and extracting meaningful insights from multimedia data in the modern age this book constitutes the refereed post conference proceedings of the 5th international conference on mining intelligence and knowledge exploration mink 2017 held in hyderabad india in december 2017 the 40 full papers presented were carefully reviewed and selected from 139 submissions the papers were grouped into various subtopics including arti ficial intelligence machine learning image processing pattern recognition speech processing information retrieval natural language processing social network analysis security and fuzzy rough sets the affect of crafting presents an interrogation of materiality and crafting a consideration of the situatedness of the technological practice of crafting itself and the forms of relationships that exist between all things transformed in the act of crafting bodies minerals and landscapes akashvani english is a programme journal of all india radio it was formerly known as the indian listener it used to serve the listener as a bradshaw of broadcasting and give listener the useful information in an interesting manner about programmes who writes them take part in them and produce them along with photographs of performing artists it also contains the information of major changes in the policy and service of the organisation the indian listener fortnightly programme journal of air in english published by the indian state broadcasting service bombay started on 22 december 1935 and was the successor to the indian radio times in english which was published beginning in july 16 of 1927 from 22 august 1937 onwards it used to published by all india radio new delhi from 1950 it was turned into a weekly journal later the indian listener became akashvani english w e f january 5 1958 it was made fortnightly journal again w e f july 1 1983 name of the journal akashvani language of the journal english date month year of publication 16 august 1983 periodicity of the journal fortnightly number of pages 60 volume number vol liv no 30 broadcast programme schedule published page nos 13 57 article 1 folk literature of india 2 spectrum of unity 3 pandit nehru and tribals 4 everest climbing 30th anniversary 5 traditional evils dowry author 1 k m george 2 p ramachandran 3 k l mehta 4 s m kumar 5 shobhana ranade keywords 1 similarities music organs 2 constant efforts bhara mata vandemataram 3 human and scientific development nefa 4 indomitable spirit mountaineers climbers 5 dark shadow prasar bharati archives has the copyright in all matters published in this akashvani and other air journals for reproduction previous permission is essential



Control System Engineering (Set Of 2 Vols.) 2004-01-01 this book focuses on various challenges solutions and emerging technologies in the operation control design optimization and protection of microgrids in the presence of hybrid renewable energy sources and electric vehicles this book provides an insight into the potential applications and recent development of different types of renewable energy systems including ac dc microgrids res integration issues with the grid electric vehicle technology etc the book serves as an interdisciplinary platform for the audience working in the focused area to access information related to energy management modeling and control it covers fundamental knowledge design mathematical modeling applications and practical issues with sufficient design problems and case studies with detailed planning aspects this book will serve as a guide for researchers academicians practicing engineers professionals and scientists as well as for graduate and postgraduate students working in the area of various applications of res electric vehicles and ac dc microgrid

Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid 2022-05-21 this book compiles the best selected research papers presented during the 2nd international conference on intelligent computing techniques for smart energy systems ictses 2021 held at manipal university jaipur rajasthan india it presents the diligent work of the research community where intelligent computing techniques are applied in allied fields of engineering ranging from engineering materials to electrical engineering to electronics and communication engineering to computer related fields the theoretical research concepts are supported with extensive reviews highlighting the trends in the possible and real life applications of computational intelligence the high quality content with broad range of the topics is thoroughly peer reviewed and published on suitable recommendations

Intelligent Computing Techniques for Smart Energy Systems 2022-06-13 the book compiles the research works related to smart solutions concept in context to smart energy systems maintaining electrical grid discipline and resiliency computational collective intelligence consisted of interaction between smart devices smart environments and smart interactions as well as information technology support for such areas it includes high quality papers presented in the international conference on intelligent computing techniques for smart energy systems organized by manipal university jaipur this book will motivate scholars to work in these areas the book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval

Intelligent Computing Techniques for Smart Energy Systems 2019-12-16 the book covers different aspects of real world applications of optimization algorithms it provides insights from the fourth international conference on harmony search soft computing and applications held at bml munjal university gurgaon india on february 7 9 2018 it consists of research articles on novel and newly proposed optimization algorithms the theoretical study of nature inspired optimization algorithms numerically established results of nature inspired optimization algorithms and real world applications of optimization algorithms and synthetic benchmarking of optimization algorithms

Harmony Search and Nature Inspired Optimization Algorithms 2018-08-23 the book covers the complete syllabus of subject as suggested by most of the universities in india it is mainly written for undergraduate technical students but you will find it helpful to students of post graduation and those who are preparing for competitive exams practising engineers and industry persons would like to refer it since it has many practical examples related to industries space and robotics continuous liner an time invariant systems are discussed in detail while the broad introduction of nonlinear and discrete data systems is also presented the details mathematical description as needed by the subject and the objective type questions for competitive exams are given in appendix

Basic Of Electrical & Electronic Engineering (Set Of 3 Vols.) 2003-01-01 this book contains select proceedings of eprec 2021 with a focus on power electronics and drives the book includes original research and case studies that present recent developments in power electronics focusing on power inverters and converters the book also consists of research work on electrical drives regulated power supplies operation of facts hvdc etc the book will be a valuable reference guide for beginners researchers and professionals interested in the advancements of power electronics and drives

Recent Advances in Power Electronics and Drives 2022-05-26 this book presents select proceedings of the international conference on innovations in clean energy technologies icet 2020 and examines a range of durable energy efficient and next generation smart green technologies for sustainable future by reflecting on the trends advances and development taking place all across the globe the topics covered include smart technologies based product energy efficient systems solar and wind energy carbon sequestration green transportation green buildings energy material biomass energy smart cities hydro power bio energy and fuel cell the book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint the book will be a valuable reference for beginners researchers and professionals interested in clean energy technologies

Advances in Clean Energy Technologies 2021-05-30 this volume comprises peer reviewed proceedings of the international conference on robotics control automation and artificial intelligence rcaai 2022 it aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the internet of things machine vision cybersecurity robotics circuits and sensors among others this volume will provide a valuable resource for those in academia and industry

Intelligent Control, Robotics, and Industrial Automation 2023-12-19 international conference on energy management renewable resources has been a premium forum for presenting recent advances in renewable based energy systems smart applications of power electronic devices in modern grid systems and ai based control over energy management areas iemre2022 has been an excellent platform to collaborate and showcase high end research giving exposure to interact with the eminent professors technocrats scientists administrators and students throughout the world by the latest innovations in the field of renewable energy and energy management with their applications in worldwide energy sectors iemre 2022 was organized by department of eee ee of institute of engineering management kolkata india for three days in online mode with invited lectures by outstanding speakers from all over the world on emerging areas in the field of renewable energy this book is a collection of select papers from the conference

Renewable Resources and Energy Management 2023-05-25 this book presents peer reviewed articles from the 6th international conference on wireless technologies embedded and intelligent systems wits 2020 held at fez morocco it presents original research results new ideas and practical lessons learnt that touch on all aspects of wireless technologies embedded and intelligent systems wits is an international conference that serves researchers scholars professionals students and academicians looking to foster both working relationships and gain access to the latest research results topics covered include telecoms wireless networking electronics multimedia embedded intelligent systems renewable energies

WITS 2020 2021-07-21 explore the prospective developments in energy systems and transportation through an in depth examination of distributed energy resources and electric vehicle analysis and optimisation of network operations this innovative publication explores the realm of renewable energy electric vehicles and their influence on network operations offering valuable perspectives for readers from diverse disciplines this extensive publication delves into the complex interplay between distributed energy resources ders and electric vehicles evs as well as their incorporation into established power grids the subject matter encompasses a diverse array of topics encompassing the attributes and advantages of distributed energy resources ders and electric vehicles evs obstacles related to grid integration efficient allocation of resources and strategies pertaining to demand response the book offers a comprehensive exploration of system analysis and optimisation techniques emphasising the effective utilisation of distributed energy resources ders and electric vehicles evs in energy networks it aims to equip readers with a robust comprehension of strategies to optimise the performance and potential of ders and evs in this context the book focuses on pioneering research and innovative solutions that are at the forefront of enhancing network operations the authors demonstrate the novelty and applicability of their findings through the examination of real world case studies and the utilisation of sophisticated mathematical models this book serves as a highly valuable resource for individuals engaged in research engineering policy making and industry related activities who are interested in effectively navigating the dynamic realm of energy systems and transportation it equips them with the necessary knowledge and insights to make well informed decisions that contribute to the attainment of a sustainable future

Distributed Energy Resources and Electric Vehicle 2024-02-29 intelligent renewable energy systems this collection of papers on artificial intelligence and other methods for improving renewable energy systems written by industry experts is a reflection of the state of the art a must have for engineers maintenance personnel students and anyone else wanting to stay abreast with current energy systems concepts and technology renewable energy is one of the most important subjects being studied researched and advanced in today s world from a macro level like the stabilization of the entire world s economy to the micro level like how you are going to heat or cool your home tonight energy specifically renewable energy is on the forefront of the discussion this book illustrates modelling simulation design and control of renewable energy systems employed with recent artificial intelligence ai and optimization techniques for performance enhancement current renewable energy sources have less power conversion efficiency because of its intermittent and fluctuating behavior therefore in this regard the recent ai and optimization techniques are able to deal with data ambiguity noise imprecision and nonlinear behavior of renewable energy sources more efficiently compared to classical soft computing techniques this book provides an extensive analysis of recent state of the art ai and optimization techniques applied to green energy systems subsequently researchers industry persons undergraduate and graduate students involved in green energy will greatly benefit from this comprehensive volume a must have for any library audience engineers scientists managers researchers students and other professionals working in the field of renewable energy

Intelligent Renewable Energy Systems 2022-01-19 this book focuses on both theory and applications in the broad areas of computational intelligence and machine learning the proceedings of the seventh international conference on advanced computing networking and informatics icacni 2019 present research papers in the areas of advanced computing networking and informatics it brings together contributions from scientists professors scholars and students and presents essential information on the topic it also discusses the practical challenges encountered and the solutions used to overcome them the goal being to promote the translation of basic research into applied research and of applied research into practice the works presented here also demonstrate the importance of

basic scientific research in a range of fields

Computational Intelligence and Machine Learning 2020-11-24 this book presents select proceedings of international conference on energy material sciences and mechanical engineering emsme 2020 held at national institute of technology delhi various topics covered in this book include clean materials solar energy systems wind energy systems power optimization grid integration of renewable energy smart energy storage technologies artificial intelligence in solar and wind system analysis of clean energy material in environment converter topology modelling and simulation this book will be useful for researchers and professionals working in the areas of solar material science electrical engineering and energy technologies

Advances in Energy Technology 2021-07-27 this book presents high quality research papers presented at the 3rd international conference on intelligent computing and advances in communication icac 2020 organized by siksha o anusandhan deemed to be university bhubaneswar odisha india in november 2020 this book brings out the new advances and research results in the fields of theoretical experimental and applied signal and image processing soft computing networking and antenna research moreover it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies

Advances in Intelligent Computing and Communication 2021-05-22 this book is associated with the cybersecurity issues and provides a wide view of the novel cyber attacks and the defense mechanisms especially ai based intrusion detection systems ids features a systematic overview of the state of the art ids proper explanation of novel cyber attacks which are much different from classical cyber attacks proper and in depth discussion of ai in the field of cybersecurity introduction to design and architecture of novel ai based ids with a transparent view of real time implementations covers a wide variety of ai based cyber defense mechanisms especially in the field of network based attacks iot based attacks multimedia attacks and blockchain attacks this book serves as a reference book for scientific investigators who need to analyze ids as well as researchers developing methodologies in this field it may also be used as a textbook for a graduate level course on information security

Artificial Intelligence for Intrusion Detection Systems 2023-10-11 this book reviews the role of glial cells astrocytes microglia oligodendroglia satellite cells and schwann cells in neuronal health and diseases it discusses the latest advances in understanding their origin differentiation and hemostasis the book also examines the role of microglial cells in central nervous system cns development maintenance and synaptic plasticity further the book presents the functions of astrocytes in healthy cns and their critical role in cns disorders including parkinson s and alzheimer s diseases notably the book describes the pathobiology molecular pathogenesis stem cells and imaging characteristics of gliomas it defines the role of glial cells in regulating iron homeostasis and their effect on the neurodegeneration of neurons lastly it covers the structure function and pathology of oligodendrocytes and their role in neuronal health and disease

The Biology of Glial Cells: Recent Advances 2022-04-09 microorganisms are a major part of the earth s biological diversity although a lot of research has been done on microbial diversity most of it is fragmented this book creates the need for a unified text to be published full of information about microbial diversity from highly reputed and impactful sources recent advancements in microbial diversity brings a comprehensive understanding of the recent advances in microbial diversity research focused on different bodily systems such as the gut recent advancements in microbial diversity also discusses how the application of advanced sequencing technologies is used to reveal previously unseen microbial diversity and show off its function gives insight into microbial diversity in different bodily systems explains novel approaches to studying microbial diversity highlights the use of omics to analyze the microbial community and its functional attributes discusses the techniques used to examine microbial diversity including their applications and respective strengths and weaknesses

Recent Advancements in Microbial Diversity 2020-06-02 plant microbe interaction is a powerful and promising link to mitigate the various kinds of stresses like drought salinity heavy metals and pathogenic effects it is more beneficial for crop improvement and sustainable approaches for reclamation of problematic soils taking a multidisciplinary approach this book explores the recent uses of plant microbe interactions in ecological and agricultural revitalization beyond normal agriculture practices and offers practical and applied solutions for the restoration of degraded land to fulfill human needs with food fodder fuel and fiber it provides a single comprehensive platform for soil scientists agriculture specialists ecologists and those in related disciplines features presents cutting edge microbial biotechnology as a tool for restoring degraded lands explores the aspects of sustainable development of degraded lands using microbe inspired land remediation highlights sustainable food production intensification in nutrient poor lands through the innovative use of microbial inoculants explains the remediation of polluted land for regaining biodiversity and achieving united nations sustainable development goals includes many real life applications from south asia offering solutions to today s agricultural problems this book will be of interest to professionals researchers and students in environmental soil and agricultural sciences as well as stakeholders policy makers and practitioners with an interest in this field

Microbial Based Land Restoration Handbook, Volume 1 2022-12-07 this new edition is a complete guide to paediatric dentistry for undergraduate and postgraduate dental students divided into

nineteen sections the book begins with an introduction to the specialty oral examination teeth identification and numbering imaging and growth and development of a child's face mouth and teeth the next chapters discuss diet and nutrition plaque control and fluorides and dental caries dental subspecialties including endodontics orthodontics restorative dentistry periodontics and surgery each have their own dedicated sections the concluding chapters cover oral pathology forensics lasers dental advances and research the fourth edition has been fully revised to provide the latest information in the field and features many new topics including zirconia crowns revascularisation and pulp regeneration silver diamine fluoride general anaesthesia and presurgical nasoalveolar moulding in the management of cleft lip and palate key points complete guide to paediatric dentistry for dental students fully revised fourth edition with many new topics highly illustrated with more than 1000 clinical photographs diagrams and tables previous edition 9789351522324 published in 2014

Textbook of Pediatric Dentistry 2018-10-31 the papers in these two volumes were presented at the international conference on nexgen technologies for mining and fuel industries nxgnmifu 2017 in new delhi from february 15 17 2017 organized by csir central institute of mining and fuel research dhanbad india the proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies the major issues focused on are innovative mining technology rock mechanics and stability analysis advances in explosives and blasting mine safety and risk management computer simulation and mine automation natural resource management for sustainable development environmental impacts and remediation paste fill technology and waste utilisation fly ash management clean coal initiatives mineral processing and coal beneficiation quality coal for power generation and conventional and non conventional fuels and gases this collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences

NexGen Technologies for Mining and Fuel Industries (Volume I and II) 2017-03-06 supervised and unsupervised data engineering for multimedia data explore the cutting edge realms of data engineering in multimedia with supervised and unsupervised data engineering for multimedia data where expert contributors delve into innovative methodologies offering invaluable insights to empower both novices and seasoned professionals in mastering the art of manipulating multimedia data with precision and efficiency supervised and unsupervised data engineering for multimedia data presents a groundbreaking exploration into the intricacies of handling multimedia data through the lenses of both supervised and unsupervised data engineering authored by a team of accomplished experts in the field this comprehensive volume serves as a go to resource for data scientists computer scientists and researchers seeking a profound understanding of cutting edge methodologies the book seamlessly integrates theoretical foundations with practical applications offering a cohesive framework for navigating the complexities of multimedia data readers will delve into a spectrum of topics including artificial intelligence machine learning and data analysis all tailored to the challenges and opportunities presented by multimedia datasets from foundational principles to advanced techniques each chapter provides valuable insights making this book an essential guide for academia and industry professionals alike whether you're a seasoned practitioner or a newcomer to the field supervised and unsupervised data engineering for multimedia data illuminates the path toward mastery in manipulating and extracting meaningful insights from multimedia data in the modern age

Supervised and Unsupervised Data Engineering for Multimedia Data 2024-04-02 this book constitutes the refereed post conference proceedings of the 5th international conference on mining intelligence and knowledge exploration mike 2017 held in hyderabad india in december 2017 the 40 full papers presented were carefully reviewed and selected from 139 submissions the papers were grouped into various subtopics including artificial intelligence machine learning image processing pattern recognition speech processing information retrieval natural language processing social network analysis security and fuzzy rough sets

Mining Intelligence and Knowledge Exploration 2017-12-05 the affect of crafting presents an interrogation of materiality and crafting a consideration of the situatedness of the technological practice of crafting itself and the forms of relationships that exist between all things transformed in the act of crafting bodies minerals and landscapes

The Affect of Crafting 2018-10-12 akashvani english is a programme journal of all india radio it was formerly known as the indian listener it used to serve the listener as a bradshaw of broadcasting and give listener the useful information in an interesting manner about programmes who writes them take part in them and produce them along with photographs of performing artists it also contains the information of major changes in the policy and service of the organisation the indian listener fortnightly programme journal of air in english published by the indian state broadcasting service bombay started on 22 december 1935 and was the successor to the indian radio times in english which was published beginning in july 16 of 1927 from 22 august 1937 onwards it used to be published by all india radio new delhi from 1950 it was turned into a weekly journal later the indian listener became akashvani english w e f january 5 1958 it was made fortnightly journal again w e f july 1 1983 name of the journal akashvani language of the journal english date month year of publication 16 august 1983 periodicity of the journal fortnightly

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