Read free Engineering mathematics through applications kuldeep singh (2023)

this popular world wide selling textbook teaches engineering mathematics in a step by step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction this contextual use of mathematics is highly motivating as with every topic and each new page students see the importance and relevance of mathematics in engineering the examples are taken from mechanics aerodynamics electronics engineering fluid dynamics and other areas while being general and accessible for all students they also highlight how mathematics works in any individual s engineering discipline the material is often praised for its careful pace and the author pauses to ask questions to keep students reflecting proof of mathematical results is kept to a minimum instead the book develops learning by investigating results observing patterns visualizing graphs and answering questions using technology this textbook is ideal for first year undergraduates and those on pre degree courses in engineering all disciplines and science new to this edition fully revised and improved on the basis of student feedback new sections more examples more exam questions vignettes and photos of key mathematicians the book computer applications in engineering and management is about computer applications in management electrical engineering electronics engineering and civil engineering it covers the software tools for office automation introduces the basic concepts of database management and provides an overview about the concepts of data communication internet and e commerce additionally the book explains the principles of computing management used in construction of buildings in civil engineering and the role of computers in power grid automation in electronics engineering features provides an insight to prospective research and application areas related to industry and technology includes industry based inputs provides a hands on approach for readers of the book to practice and assimilate learning this book is primarily aimed at undergraduates and graduates in computer science information technology civil engineering electronics and electrical engineering management academicians and research scholars information technology deals with computing including hardware software telecommunications and generally anything involved in the transmittal of information information technology now lies at the heart of almost every business and every organization across the globe this book is specially designed for students who want a real understanding of computer software hardware networks word processor and different communication medias the main features of this book are it presents basic elements that need to be understood to become a computer user it addresses various input output devices memory storage and ict using user friendly examples it also focuses on open office which includes word processing presentation tool and spreadsheet in a way that is easy to understand and use in detail the matter for this book was primarily collected from the authors who have several years of work experience in it sector the book contains numerous solved questions and multiple choice questions this book is a unique guide to the disruptions innovations and opportunities that technology provides the insurance sector and acts as an academic industry specific guide for creating operational effectiveness managing risk improving financials and retaining customers it also contains the current philosophy and actionable strategies from a wide range of contributors who are experts on the topic it logically explains why traditional ways of doing business will soon become irrelevant and therefore provides an alternative choice by embracing technology practitioners and students alike will find value in the support for understanding practical implications of how technology has brought innovation and modern methods to measure control and evaluation price risk in the insurance business it will help insurers reduce operational costs strengthen customer interactions target potential customers to provide usage based insurance and optimize the overall business retailers and industry giants have made significant strides in adopting digital platforms to deliver a satisfying customer experience insurance companies must adjust their business models and strategies to remain competitive and take advantage of technology insurance companies are increasingly investing in it and related technologies to improve customer experience and reduce operational costs innovation through new technologies is a key driver of change in the financial sector which is often accompanied by uncertainty and doubt this book will play a pivotal role in risk management through fraud detection regulatory compliances and claim settlement leading to overall satisfaction of customers present volume of contemporary advances in science technology is focused on heavy metal removal bioremediations impact of the coronavirus pandemic on the lifestyles of consumers salt stress in vigno mungo and effect of salicylic acid synthesis of schiff bases and study on suicidal cases among students in india quantification of acrylamide and its formation in potato modeling and simulation of efficient dvb t system with mimo technique this book explores recent breakthroughs and developments across cutting edge fields of science and technology from polymer composites to global warming biodiversity loss to nanotechnology the chapters provide authoritative insights into some of today s most pressing issues and promising solutions key topics covered include properties and applications of polymer composites in construction aerospace and other industries causes and consequences of glacial melting and the urgent need to address climate change drivers of the accelerating biodiversity crisis and pathways for conservationemerging possibilities enabled by modern scientific and technological innovations advances in biomass energy as a renewable alternative to fossil fuelsuse of nanomaterials for environmental remediation and removing contaminantsbiomedical applications of cellulose nanofibrils in areas like tissue engineering and drug deliverywritten by leading international researchers

and experts this volume showcases interdisciplinary contemporary advances in science and technology it explores how researchers are leveraging innovations to meet human needs and build a sustainable future contemporary advances in science technology volume vi will appeal to anyone seeking an accessible overview of key developments in these vital and rapidly evolving fields the book examines the role of artificial intelligence during the covid 19 pandemic including its application in i early warnings and alerts ii tracking and prediction iii data dashboards iv diagnosis and prognosis v treatments and cures and vi social control it explores the use of artificial intelligence in the context of population screening and assessing infection risks and presents mathematical models for epidemic prediction of covid 19 furthermore the book discusses artificial intelligence mediated diagnosis and how machine learning can help in the development of drugs to treat the disease lastly it analyzes various artificial intelligence based models to improve the critical care of covid 19 patients in this book the author tries to bring some clarity and much needed top level understanding of big data what it is what makes it big why is it important and how do we all benefit from it in the beginning chapters the book covers the so called v s of big data volume variety velocity and veracity as well as a few minor v s it s the size of these v s that gives big data its name historically some of the technically most difficult issues with big data had to do with its storage and retrieval many of the best known tech companies became the household names thanks to the expertise they developed for dealing with data at scale in process they developed several advanced technologies and frameworks many of which became open sourced such as hadoop and spark and are now accessible to anyone the issues and challenges of analyzing data at a large scale are indeed very difficult and need a very strong mathematics skill i know that very well from firsthand experience many of my favorite techniques and methods that work very well with datasets that can fit in memory are oftentimes virtually impossible to effectively implement with terabyte sized data in the last the book covers the application of big data in medicine and business untapped potential to use big data analytics and machine learning in these fields big data relies on its effectiveness on the full digital transformation of organizations and processes and again speaking from experience medicine and business have still a long way to go in this regard big data technologies will continue to have an outsized impact on our lives and their influence is only going to grow anyone who would be interested in learning more about what big data is all about would be well advised to read this book it is informative very well written and relatively short and highly recommended the book focuses on the state of the art technologies pertaining to advances in soft computing intelligent system and applications the proceedings of asisa 2016 presents novel and original work in soft computing intelligent system and applications by the experts and budding researchers these are the cutting edge technologies that have immense application in various fields the papers discuss many real world complex problems that cannot be easily handled with traditional mathematical methods the exact solution of the problems at hand can be achieved with soft computing techniques soft computing represents a collection of computational techniques inheriting inspiration from evolutionary algorithms nature inspired algorithms bio inspired algorithms neural networks and fuzzy logic with the rapid developments in microchips mobile communication and satellite communication electromagnetic interference emi or radio frequency interference rfi has received significant attention to ensure high performance of electronic items and to avoid any adverse effect on human health emi is one of the main factors that weaken electronic system performance and is considered as a modern form of environmental pollution many efforts have been made to reduce emi including industrial regulations and r d funding the expansion of the it industry has promoted the development of microwave absorbing materials mams and emi shielding materials to improve the resistance of smart devices to emi this book presents a comprehensive review of the recent developments in emi shielding and the design of microwave absorbing materials chapters cover the basic mechanism of shielding and radiation absorption measurement procedures factors affecting the shielding and different materials for shielding and absorption e g mwcnt conjugated polymers graphene mxene based hybrid materials carbon foam graphene based thermoplastic polyurethane nanocomposites carbon carbon composites nano ferrite composites and conducting ferro fluids an analysis of emi shielding using fillers composed of different materials is also presented in addition key issues and current challenges to achieve better shielding and absorption performance for various materials are explained giving the readers a broader perspective of the subject the book is suitable as a detailed reference for students in electronics engineering materials science and other technical courses and professionals working on materials for designing emi shielding mechanisms this book is a result of contributions of experts from international scientific community working in different aspects of nanocomposite science and applications and reports on the state of the art research and development findings on nanocomposites through original and innovative research studies through its 19 chapters the reader will have access to works related to the theory and characterization of various types of nanocomposites such as composites of cellulose and metal nanoparticles polymer clay polymer carbon and polymer graphene nanocomposites and several other exciting topics while it introduces the various applications of nanocomposites in water treatment supercapacitors green energy generation anticorrosive and antistatic applications hard coatings antiballistic and electroconductive scaffolds besides it reviews multifunctional nanocomposites photonics of dielectric nanostructures and electron scattering in nanocomposite materials examines the application of numerical methods to obtain the deflection frequency and buckling loads explains the application of numerical methods for solving motion equations includes numerous practical and applicable examples throughout 38 years in anyones life is a very long period i was privileged to be associated this long with the marvellous service known as the indian air force although retired more than 24 years ago i often forget that i am no longer in the service in my dreams i still see myself worrying about some unfinished tasks of the squadron

on several occasions i dream as if i am packing household items hurriedly to proceed on some imaginary transfer after waking up i realise it was only a dream but the sweetness of those moments keep lingering on my mind for rest of the day psychologists might name this condition as an obsession and i wouldnt differ with them dreaming at night and recollecting past events during the day ultimately nudged me on to make the anecdotal record in the form of a book which is now in your hands most of the autobiographies are written by top ranking people with top view of the organization they command this book is however different that it is written by a person holding lower position and viewed from the bottom echelon of the organization all the characters in the book are absolutely real with their correct names and locations however in a couple of places the names are changed to avoid controversy the change of name is clearly indicated wherever it occurs there is no malice and no intention to hurt anyones feelings still if anyone feels hurt please accept my apologies in advance this book provides a thorough reference that acts as an indispensable resource for anyone at various levels of programming proficiency including beginners and experienced programmers who aspire to attain mastery in the foundational principles of programming using the c language the book systematically introduces readers to the basic concepts of c programming starting from variables data types and control structures to more advanced topics like pointers arrays and functions the carefully crafted examples and exercises not only aid in understanding the syntax but also provide practical insights into problem solving using c the book s approach strikes a balance between theoretical knowledge and practical application making it an ideal learning companion for students self learners and professionals venturing into the world of programming the importance of the book lies not just in its ability to teach syntax and semantics but in its capacity to cultivate a problem solving mindset a skill essential in any programming endeavor whether used in academic settings or for self study the book on c language stands as a timeless resource empowering individuals to harness the power of c for building efficient and robust software audience this book is intended for ug and pg students preparing for programming in c in the book all the basic beliefs related to c programming are presented as a brief theory which helps the students refresh their theoretical concepts the remaining part of the book contains numerous multiple choice questions for practice on different competitive exams we do understand that there is nothing like perfection and this is true for this book hence we would welcome further suggestions from our valued readers the suggestions will motivate us to work even better dr kiran malik dr kuldeep singh kaswan dr jagjit singh dhatterwal this book delves into the very core of our digital existence unearthing the essence of a digital persona it s a realm where authenticity meets multiplicity as we decipher the nuanced art of crafting and managing our online identities we confront issues of privacy and ethics exploring the profound impact of our digital footprints on our lives and society the integration of ai paves the way for an intriguing future with predictions that challenge our understanding of self in the digital age welcome to a world where your digital personality is more than just data it s a reflection of who you are and who you can be the main goal of this book is to enable more seamless and natural human computer interaction this will provide better personalized experience further this will influence the performance of the user wherein they will have the support of the machines to achieve their tasks in the most efficient way this book is the first of a kind in introducing digital personality it provides an overview of the character dimensions and how state of the art technologies would accommodate such a research field it includes novel representation of character from various perspectives it also provides instances of applications of this emerging research field metaverse a result of natural evolution of technology and human interactions key features understand the metaverse evolutions characteristics myths vs reality explore the metaverse opportunities along with its adaption challenge understand our collective responsibilities in shaping up the metaverse description the metaverse has been a topic of conversation for a long time but it still remains loosely defined some see it as a game in the virtual world while others see it as a more connected version of the real world it has also been touted as the next internet however it is important to separate hype from reality and identify the business opportunities while also covering the pitfalls of the metaverse as technology and human interactions continue to evolve it is important to learn how we can play our part responsibly in adapting to newer technology this book is a comprehensive guide to the metaverse providing readers with a deep understanding of its definition and origin this book also aims to provide insights that distinguish between exaggerated expectations and genuine opportunities of metaverse to build a balanced and informed perspective on its promises this book covers standards and practices to help navigate the challenges and opportunities of metaverse it emphasizes the importance of collective responsibility of industry academia governing body and other stakeholders involved in shaping the direction of the metaverse ultimately this book aims to raise awareness and encourage the responsible and sustainable use of technology what you will learn gain a comprehensive understanding of the metaverse evolution define metaverse and separate the myths from reality explore potential metaverse use cases in various business domains understand adoption challenges and concerns of the metaverse learn about tools techniques and considerations for metaverse development lay down the action plan to build responsible and sustainable metaverse who this book is for this book is for the students technology and business enthusiasts who want to understand the evolution of technologies and how it is shaping up the next internet the metaverse table of contents part 1 introduction unveiling the metaverse 1 exploring the metaverse origin 2 metaverse various forms and interpretations part 2 metaverse a result of technological evolutions 3 understanding xr metaverse foundation 4 ai empowering the metaverse 5 iot cloud and next gen networks 6 decentralization and the role of blockchain part 3 metaverse an opportunity to extend the beliefs 7 gaming redefined the metaverse revolution 8 connecting and engaging in the metaverse 9 revolutionizing fitness and healthcare 10 exploring the metaverse economy 11 skilling

and reskilling in the enterprise metaverse part 4 metaverse the concerning part 12 identity preservation and privacy protection 13 metaverse and sustainability part 5 shaping the metaverse standards and practices 14 getting started with metaverse development 15 metaverse practices standards and initiatives 16 metaverse a way forward the integration of nanotechnology with biomaterials diagnostic tools analytical equipment physiotherapy kits and drug delivery agents has resulted in nanotherapeutics illustrated as a class of medicine with potential of research and development this book illustrates synthesis properties and applications of nanotherapeutics in various healthcare related issues including treatment of cancer alzheimer s disease targeted drug delivery anti hiv 1 nanotherapeutics antibacterial antiviral agents skin therapy and hyperthermia features consolidates different aspects of nanoparticles such as synthesis and types of nanotherapeutics in a detailed manner presents categorical classification of nanoparticles as therapeutics covers the sustainability of nanotherapeutics reviews fabrication and advancement of all categories of nanotherapeutics discusses specific applications such as in cancer therapy skin treatments and targeted drug delivery this book is aimed at researchers professionals and senior undergraduate students in materials and medical science biomedical engineering and nanotechnology swarm intelligence this important authored book presents valuable new insights by exploring the boundaries shared by cognitive science social psychology artificial life artificial intelligence and evolutionary computation by applying these insights to solving complex engineering problems motivated by the capability of the biologically inspired algorithms swarm intelligence an approach from natural to artificial focuses on ant cat crow elephant grasshopper water wave and whale optimization swarm cyborg and particle swarm optimization and presents recent developments and applications concerning optimization with swarm intelligence techniques the goal of the book is to offer a wide spectrum of sample works developed in leading research throughout the world about innovative methodologies of swarm intelligence and foundations of engineering swarm intelligent systems as well as applications and interesting experiences using particle swarm optimization which is at the heart of computational intelligence discussed in the book are applications of various swarm intelligence models to operational planning of energy plants modeling and control of robots organic computing techniques of cloud services bioinspired optimization routing protocols for next generation networks inspired by collective behaviors of insect societies and cybernetic organisms audience the book is directed to researchers practicing engineers and students in computational intelligence who are interested in enhancing their knowledge of techniques and swarm intelligence over 200 chapters in six volumes cover the whole gamut of plastic reconstructive and aesthetic surgeries a comprehensive and illustrated work from the land of sushruta for students teachers and practicing surgeons in this volume principles and advances in plastic surgery a very wide spectrum of topics right from the history of plastic surgery to current and raging subjects like lasers composite tissue allotransplantation simulation robotics telemedicine and information technology in plastic surgery clinical photography human factors and skills in plastic surgery doctor patient relationship and legal issues have been discussed the six volumes seek to incorporate in one work issues relevant to the developing world as well as insights from national and international plastic surgery practices which highlight newer management techniques along with traditional methods this makes these volumes a must have resource for students and practitioners of plastic surgery across the globe key features the book is broadly divided into five sections general face hair restoration body contouring and breast explains techniques of hair restoration surgery this is a unique topic and is not covered in any of the similar published titles covers all the aspects of aesthetic plastic surgery including nonsurgical management the chapter on regenerative medicine gives a futuristic literature section on face covers topics related to ageing surgical and nonsurgical rejuvenation techniques indian people have been living in new zealand for over a hundred years but this is the first book to tell the story of their settlement in this country cover digest of supreme court judgments from 1950 2000 □ mit□ 1□ □ □ □ □ □ □ □ 2□ □ □ □ □ □ □ □ □ □ 3□ □ □ □ □ □ □ □ □ □ □ □ 4□ □ □ □ □ 5 updated for 2008 this annual edition of the classic bestselling directory provides everything working writers need to find the most receptive publishers editors and agents for their work vols 1 contain separately paged sections journal summaries acts and notifications and reports □ 6□ □ □ □ □ 7□ □ □ □ □ □ □ □ □ □

Engineering Mathematics Through Applications

2019-12-13

this popular world wide selling textbook teaches engineering mathematics in a step by step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction this contextual use of mathematics is highly motivating as with every topic and each new page students see the importance and relevance of mathematics in engineering the examples are taken from mechanics aerodynamics electronics engineering fluid dynamics and other areas while being general and accessible for all students they also highlight how mathematics works in any individual s engineering discipline the material is often praised for its careful pace and the author pauses to ask questions to keep students reflecting proof of mathematical results is kept to a minimum instead the book develops learning by investigating results observing patterns visualizing graphs and answering questions using technology this textbook is ideal for first year undergraduates and those on pre degree courses in engineering all disciplines and science new to this edition fully revised and improved on the basis of student feedback new sections more examples more exam questions vignettes and photos of key mathematicians

Computer Applications in Engineering and Management

2022-04-08

the book computer applications in engineering and management is about computer applications in management electrical engineering electronics engineering and civil engineering it covers the software tools for office automation introduces the basic concepts of database management and provides an overview about the concepts of data communication internet and e commerce additionally the book explains the principles of computing management used in construction of buildings in civil engineering and the role of computers in power grid automation in electronics engineering features provides an insight to prospective research and application areas related to industry and technology includes industry based inputs provides a hands on approach for readers of the book to practice and assimilate learning this book is primarily aimed at undergraduates and graduates in computer science information technology civil engineering electronics and electrical engineering management academicians and research scholars

Essentials of Information Technology

2019-01-10

information technology deals with computing including hardware software telecommunications and generally anything involved in the transmittal of information information technology now lies at the heart of almost every business and every organization across the globe this book is specially designed for students who want a real understanding of computer software hardware networks word processor and different communication medias the main features of this book are it presents basic elements that need to be understood to become a computer user it addresses various input output devices memory storage and ict using user friendly examples it also focuses on open office which includes word processing presentation tool and spreadsheet in a way that is easy to understand and use in detail the matter for this book was primarily collected from the authors who have several years of work experience in it sector the book contains numerous solved questions and multiple choice questions

The Application of Emerging Technology and Blockchain in the Insurance Industry

2024-02-20

this book is a unique guide to the disruptions innovations and opportunities that technology provides the insurance sector and acts as an academic industry specific guide for creating operational effectiveness managing risk improving financials and retaining customers it also contains the current philosophy and actionable strategies from a wide range of contributors who are experts on the topic it logically explains why traditional ways of doing business will soon become irrelevant and therefore provides an alternative choice by embracing technology practitioners and students alike will find value in the support for understanding practical implications of how technology has brought innovation and modern methods to measure control and evaluation price risk in the insurance business it will help insurers reduce operational costs strengthen customer interactions target potential customers to provide usage based insurance and optimize the overall business retailers and industry giants have made significant strides in adopting digital platforms to deliver a satisfying customer experience insurance companies must adjust their business models and strategies to remain competitive and take advantage of technology insurance companies are increasingly investing in it and related technologies to improve customer experience and reduce operational costs innovation through new technologies is a key driver of change in the financial sector which is often accompanied by uncertainty and doubt this book will play a pivotal role in risk management through fraud detection regulatory compliances and claim settlement leading to overall satisfaction of customers

Contemporary Advances in Science & Technology

2021-12-13

present volume of contemporary advances in science technology is focused on heavy metal removal bioremediations impact of the coronavirus pandemic on the lifestyles of consumers salt stress in vigno mungo and effect of salicylic acid synthesis of schiff bases and study on suicidal cases among students in india quantification of acrylamide and its formation in potato modeling and simulation of efficient dvb t system with mimo technique

Contemporary Advances in Science & Technology, Volume VI

2023-12-31

this book explores recent breakthroughs and developments across cutting edge fields of science and technology from polymer composites to global warming biodiversity loss to nanotechnology the chapters provide authoritative insights into some of today s most pressing issues and promising solutions key topics covered include properties and applications of polymer composites in construction aerospace and other industries causes and consequences of glacial melting and the urgent need to address climate change drivers of the accelerating biodiversity crisis and pathways for conservationemerging possibilities enabled by modern scientific and technological innovations advances in biomass energy as a renewable alternative to fossil fuelsuse of nanomaterials for environmental remediation and removing contaminantsbiomedical applications of cellulose nanofibrils in areas like tissue engineering and drug deliverywritten by leading international researchers and experts this volume showcases interdisciplinary contemporary advances in science and technology it explores how researchers are leveraging innovations to meet human needs and build a sustainable future contemporary advances in science technology volume vi will appeal to anyone seeking an accessible overview of key developments in these vital and rapidly evolving fields

Applications of Artificial Intelligence in COVID-19

2021-09-29

the book examines the role of artificial intelligence during the covid 19 pandemic including its application in i early warnings and alerts ii tracking and prediction iii data dashboards iv diagnosis and prognosis v treatments and cures and vi social control it explores the use of artificial intelligence in the context of population screening and assessing infection risks and presents mathematical models for epidemic prediction of covid 19 furthermore the book discusses artificial intelligence mediated diagnosis and how machine learning can help in the development of drugs to treat the disease lastly it analyzes various artificial intelligence based models to improve the critical care of covid 19 patients

Big Data

2020-09-21

in this book the author tries to bring some clarity and much needed top level understanding of big data what it is what makes it big why is it important and how do we all benefit from it in the beginning chapters the book covers the so called v s of big data volume variety velocity and veracity as well as a few minor v s it s the size of these v s that gives big data its name historically some of the technically most difficult issues with big data had to do with its storage and retrieval many of the best known tech companies became the household names thanks to the expertise they developed for dealing with data at scale in process they developed several advanced technologies and frameworks many of which became open sourced such as hadoop and spark and are now accessible to anyone the issues and challenges of analyzing data at a large scale are indeed very difficult and need a very strong mathematics skill i know that very well from firsthand experience many of my favorite techniques and methods that work very well with datasets that can fit in memory are oftentimes virtually impossible to effectively implement with terabyte sized data in the last the book covers the application of big data in medicine and business untapped potential to use big data analytics and machine learning in these fields big data relies on its effectiveness on the full digital transformation of organizations and processes and again speaking from experience medicine and business have still a long way to go in this regard big data technologies will continue to have an outsized impact on our lives and their influence is only going to grow anyone who would be interested in learning more about what big data is all about would be well advised to read this book it is informative very well written and relatively short and highly recommended

International Proceedings on Advances in Soft Computing, Intelligent Systems and Applications

2017-12-28

the book focuses on the state of the art technologies pertaining to advances in soft computing intelligent system and applications the proceedings of asisa 2016 presents novel and original work in soft computing intelligent system and applications by the experts and budding researchers these are the cutting edge technologies that have immense application in various fields the papers discuss many real world complex problems that cannot be easily handled with traditional mathematical methods the exact solution of the problems at hand can be achieved with soft computing techniques soft computing represents a collection of computational techniques inheriting inspiration from evolutionary algorithms nature inspired algorithms bio inspired algorithms neural networks and fuzzy logic

Smart Materials Design for Electromagnetic Interference Shielding Applications

2022-11-08

with the rapid developments in microchips mobile communication and satellite communication electromagnetic interference emi or radio frequency interference rfi has received significant attention to ensure high performance of electronic items and to avoid any adverse effect on human health emi is one of the main factors that weaken electronic system performance and is considered as a modern form of environmental pollution many efforts have been made to reduce emi including industrial regulations and r d funding the expansion of the it industry has promoted the development of microwave absorbing materials mams and emi shielding materials to improve the resistance of smart devices to emi this book presents a comprehensive review of the recent developments in emi shielding and the design of microwave absorbing materials chapters cover the basic mechanism of shielding and radiation absorption measurement procedures factors affecting the shielding and different materials for shielding and absorption e g mwcnt conjugated polymers graphene mxene based hybrid materials carbon foam graphene based thermoplastic polyurethane nanocomposites carbon carbon composites nano ferrite composites and conducting ferro fluids an analysis of emi shielding using fillers composed of different materials is also presented in addition key issues and current challenges to achieve better shielding and absorption performance for various materials are explained giving the readers a broader perspective of the subject the book is suitable as a detailed reference for students in electronics engineering materials science and other technical courses and professionals working on materials for designing emi shielding mechanisms

Nanocomposites

2012-09-27

this book is a result of contributions of experts from international scientific community working in different aspects of nanocomposite science and applications and reports on the state of the art research and development findings on nanocomposites through original and innovative research studies through its 19 chapters the reader will have access to works related to the theory and characterization of various types of nanocomposites such as composites of cellulose and metal nanoparticles polymer clay polymer carbon and polymer graphene nanocomposites and several other exciting topics while it introduces the various applications of nanocomposites in water treatment supercapacitors green energy generation anticorrosive and antistatic applications hard coatings antiballistic and electroconductive scaffolds besides it reviews multifunctional nanocomposites photonics of dielectric nanostructures and electron scattering in nanocomposite materials

Application of Numerical Methods in Engineering Problems using MATLAB®

2024-01-31

examines the application of numerical methods to obtain the deflection frequency and buckling loads explains the application of numerical methods for solving motion equations includes numerous practical and applicable examples throughout

Indian Air Force and Me

2017-08-14

38 years in anyones life is a very long period i was privileged to be associated this long with the marvellous service known as the indian air force although retired more than 24 years ago i often forget that i am no longer in the service in my dreams i still see myself worrying about some unfinished tasks of the squadron on several occasions i dream as if i am packing household items hurriedly to proceed on some imaginary transfer after waking up i realise it was only a dream but the sweetness of those moments keep lingering on my mind for rest of the day psychologists might name this condition as an obsession and i wouldnt differ with them dreaming at night and recollecting past events during the day ultimately nudged me on to make the anecdotal record in the form of a book which is now in your hands most of the autobiographies are written by top ranking people with top view of the organization they command this book is however different that it is written by a person holding lower position and viewed from the bottom echelon of the organization all the characters in the book are absolutely real with their correct names and locations however in a couple of places the names are changed to avoid controversy the change of name is clearly indicated wherever it occurs there is no malice and no intention to hurt anyones feelings still if anyone feels hurt please accept my apologies in advance

Programming in C

2024-04-12

this book provides a thorough reference that acts as an indispensable resource for anyone at various levels of programming proficiency including beginners and experienced programmers who aspire to attain mastery in the foundational principles of programming using the c language the book systematically introduces readers to the basic concepts of c programming starting from variables data types and control structures to more advanced topics like pointers arrays and functions the carefully crafted examples and exercises not only aid in understanding the syntax but also provide practical insights into problem solving using c the book s approach strikes a balance between theoretical knowledge and practical application making it an ideal learning companion for students self learners and professionals venturing into the world of programming the importance of the book lies not just in its ability to teach syntax and semantics but in its capacity to cultivate a problem solving mindset a skill essential in any programming endeavor whether used in academic settings or for self study the book on c language stands as a timeless resource empowering individuals to harness the power of c for building efficient and robust software audience this book is intended for ug and pg students preparing for programming in c in the book all the basic beliefs related to c programming are presented as a brief theory which helps the students refresh their theoretical concepts the remaining part of the book contains numerous multiple choice questions for practice on different competitive exams we do understand that there is nothing like perfection and this is true for this book hence we would welcome further suggestions from our valued readers the suggestions will motivate us to work even better dr kiran malik dr kuldeep singh kaswan dr jagjit singh dhatterwal

Digital Personality: A Man Forever

2024-06-21

this book delves into the very core of our digital existence unearthing the essence of a digital persona it s a realm where authenticity meets multiplicity as we decipher the nuanced art of crafting and managing our online identities we confront issues of privacy and ethics exploring the profound impact of our digital footprints on our lives and society the integration of ai paves the way for an intriguing future with predictions that challenge our understanding of self in the digital age welcome to a world where your digital personality is more than just data it s a reflection of who you are and who you can be the main goal of this book is to enable more seamless and natural human computer interaction this will provide better personalized experience further this will influence the performance of the user wherein they will have the support of the

machines to achieve their tasks in the most efficient way this book is the first of a kind in introducing digital personality it provides an overview of the character dimensions and how state of the art technologies would accommodate such a research field it includes novel representation of character from various perspectives it also provides instances of applications of this emerging research field

Exploring the Metaverse

2024-04-15

metaverse a result of natural evolution of technology and human interactions key features understand the metaverse evolutions characteristics myths vs reality explore the metaverse opportunities along with its adaption challenge understand our collective responsibilities in shaping up the metaverse description the metaverse has been a topic of conversation for a long time but it still remains loosely defined some see it as a game in the virtual world while others see it as a more connected version of the real world it has also been touted as the next internet however it is important to separate hype from reality and identify the business opportunities while also covering the pitfalls of the metaverse as technology and human interactions continue to evolve it is important to learn how we can play our part responsibly in adapting to newer technology this book is a comprehensive guide to the metaverse providing readers with a deep understanding of its definition and origin this book also aims to provide insights that distinguish between exaggerated expectations and genuine opportunities of metaverse to build a balanced and informed perspective on its promises this book covers standards and practices to help navigate the challenges and opportunities of metaverse it emphasizes the importance of collective responsibility of industry academia governing body and other stakeholders involved in shaping the direction of the metaverse ultimately this book aims to raise awareness and encourage the responsible and sustainable use of technology what you will learn gain a comprehensive understanding of the metaverse evolution define metaverse and separate the myths from reality explore potential metaverse use cases in various business domains understand adoption challenges and concerns of the metaverse learn about tools techniques and considerations for metaverse development lay down the action plan to build responsible and sustainable metaverse who this book is for this book is for the students technology and business enthusiasts who want to understand the evolution of technologies and how it is shaping up the next internet the metaverse table of contents part 1 introduction unveiling the metaverse 1 exploring the metaverse origin 2 metaverse various forms and interpretations part 2 metaverse a result of technological evolutions 3 understanding xr metaverse foundation 4 ai empowering the metaverse 5 iot cloud and next gen networks 6 decentralization and the role of blockchain part 3 metaverse an opportunity to extend the beliefs 7 gaming redefined the metaverse revolution 8 connecting and engaging in the metaverse 9 revolutionizing fitness and healthcare 10 exploring the metaverse economy 11 skilling and reskilling in the enterprise metaverse part 4 metaverse the concerning part 12 identity preservation and privacy protection 13 metaverse and sustainability part 5 shaping the metaverse standards and practices 14 getting started with metaverse development 15 metaverse practices standards and initiatives 16 metaverse a way forward

Nanoparticles in Diagnosis, Drug Delivery and Nanotherapeutics

2023-12-08

the integration of nanotechnology with biomaterials diagnostic tools analytical equipment physiotherapy kits and drug delivery agents has resulted in nanotherapeutics illustrated as a class of medicine with potential of research and development this book illustrates synthesis properties and applications of nanotherapeutics in various healthcare related issues including treatment of cancer alzheimer s disease targeted drug delivery anti hiv 1 nanotherapeutics antibacterial antiviral agents skin therapy and hyperthermia features consolidates different aspects of nanoparticles such as synthesis and types of nanotherapeutics in a detailed manner presents categorical classification of nanoparticles as therapeutics covers the sustainability of nanotherapeutics reviews fabrication and advancement of all categories of nanotherapeutics discusses specific applications such as in cancer therapy skin treatments and targeted drug delivery this book is aimed at researchers professionals and senior undergraduate students in materials and medical science biomedical engineering and nanotechnology

Swarm Intelligence

2023-03-14

swarm intelligence this important authored book presents valuable new insights by exploring the boundaries shared by cognitive science social psychology artificial life artificial intelligence and evolutionary computation by applying these insights to solving complex engineering problems motivated by the capability of the biologically inspired algorithms swarm intelligence an approach from natural to artificial focuses on ant cat crow elephant grasshopper water wave and whale optimization swarm cyborg and particle swarm optimization and presents recent developments and applications concerning optimization with swarm intelligence techniques the goal of the book is to offer a wide spectrum of sample works developed in leading research throughout the world about innovative methodologies of swarm intelligence and foundations of engineering swarm intelligent systems as well as applications and interesting experiences using particle swarm optimization which is at the heart of computational intelligence discussed in the book are applications of various swarm intelligence models to operational planning of energy plants modeling and control of robots organic computing techniques of cloud services bioinspired optimization routing protocols for next generation networks inspired by collective behaviors of insect societies and cybernetic organisms audience the book is directed to researchers practicing engineers and students in computational intelligence who are interested in enhancing their knowledge of techniques and swarm intelligence

Voice & Data

2007

over 200 chapters in six volumes cover the whole gamut of plastic reconstructive and aesthetic surgeries a comprehensive and illustrated work from the land of sushruta for students teachers and practicing surgeons in this volume principles and advances in plastic surgery a very wide spectrum of topics right from the history of plastic surgery to current and raging subjects like lasers composite tissue allotransplantation simulation robotics telemedicine and information technology in plastic surgery clinical photography human factors and skills in plastic surgery doctor patient relationship and legal issues have been discussed the six volumes seek to incorporate in one work issues relevant to the developing world as well as insights from national and international plastic surgery practices which highlight newer management techniques along with traditional methods this makes these volumes a must have resource for students and practitioners of plastic surgery across the globe key features the book is broadly divided into five sections general face hair restoration body contouring and breast explains techniques of hair restoration surgery this is a unique topic and is not covered in any of the similar published titles covers all the aspects of aesthetic plastic surgery including nonsurgical management the chapter on regenerative medicine gives a futuristic literature section on face covers topics related to ageing surgical and nonsurgical rejuvenation techniques

Textbook of Plastic, Reconstructive, and Aesthetic Surgery, Vol 6

2022-08-25

indian people have been living in new zealand for over a hundred years but this is the first book to tell the story of their settlement in this country cover

Indian Settlers

2007

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American Book Publishing Record

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