

## Free read Price spiral method Copy

mastering agile method and lean startup for digital business transformation digital business software development customer happiness minimum viable product scrum framework project management innovation customer input and market expectations are some of the buzzwords used to describe these concepts the book discusses the agile method s iterative approach to software development and places a focus on providing customers with value and changing with the times it also explores the lean startup methodology s emphasis on developing a minimal viable product and utilizing user input to enhance it the book contrasts various techniques with real world examples of how agile and lean startup might be used in digital business ventures it also covers the scrum framework its function in agile methodologies and the advantages of using scrum to project management as a call to action the book s conclusion encourages readers to incorporate these approaches into their own online company operations and offers further learning resources overall this book is an indispensable resource for anybody trying to enhance the operations of their digital business and produce goods that live up to consumer expectations keywords agile method lean startup digital business software development customer satisfaction minimum viable product scrum framework project management innovation customer feedback market demands teaching and learning are the crux of every nation on earth the issue is how can we teach science technology engineering and mathematics stem to the future scientists technologists engineers mathematicians and stem educators what is the best method that will result in supernatural accelerated learning the answer is the micro spiral methodology a spiral way of learning each iteration of this method adds another level of depth and understanding of knowledge and skills the concepts are encoded on both the right and left sides of the brain and stored in long term memory with a mnemonic retrieval mechanism the scientific test results had an entire year s curricula compressed into three months and micro spiraled african american state science test scores went up by 45 percent hispanic scores went up by 36 percent economically disadvantaged scores went up by 32 percent and anglos scores went up by 28 percent the micro spiral methodology works a hands on guide for creating a winning engineering project engineering project management is a practical step by step guide to project management for engineers the author a successful long time practicing engineering project manager describes the techniques and strategies for creating a successful engineering project the book introduces engineering projects and their management and then proceeds stage by stage through the engineering life cycle project from requirements implementation to phase out the book offers information for understanding the needs of the end user of a product and other stakeholders associated with a project and is full of techniques based on real hands on management of engineering projects the book starts by explaining how we perform the actual engineering on projects the techniques for project management contained in the rest of the book use those engineering methods to create superior management techniques every topic from developing a work breakdown structure and an effective project plan to creating credible predictions for schedules and costs through monitoring the progress of your engineering project is infused with actual engineering techniques thereby vastly increasing the effectivity and credibility of those management techniques the book also teaches you how to draw the right conclusions from numeric data and calculations avoiding the mistakes that often cause managers to make incorrect decisions the book also provides valuable insight about what the author calls the social aspects of engineering project management aligning and motivating people interacting successfully with your stakeholders and many other important people oriented topics the book ends with a section on ethics in engineering this important book offers a hands on guide for developing and implementing a project management plan includes background information strategies and techniques on project management designed for engineers takes an easy to understand step by step approach to project management contains ideas for launching a project managing large amount of software and tips for ending a project structured to support both undergraduate and graduate courses in engineering project management engineering project management is an essential guide for managing a successful project from the idea phase to the completion of the project volume is indexed by thomson reuters cpci s was this book brings together 389 pieces of peer this book brings together 389 peer reviewed papers on manufacturing science and measuring technology it provides the reader with a broad overview of the latest advances in the field of manufacturing science and measuring technology it is divided into chapter 1 manufacturing and design science chapter 2 materials science and engineering chapter 3 measuring technology and mechatronics this introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary the authors are seasoned educators with decades of experience teaching optics their approach is to gradually present mathematics explaining the physical concepts it covers ray tracing to the wave nature of light and introduces maxwell s equations in an organic fashion the text then moves on to explains how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics ajawad i hajja is a professor of physics at indiana university of pennsylvania m z numan is professor and chair of the department of physics at indiana university of pennsylvania w larry freeman is emeritus professor of physics at indiana university of pennsylvania this set comprises selected peer reviewed papers from the 2011 international conference on mechanical engineering and materials science icmems 2011 held on september 24 25th 2011 at cheju island korea volume is indexed by thomson reuters cpci s was the objective of icmems 2011 was to provide a forum where researchers educators engineers and government officials involved in the above fields could circulate their latest research results and exchange ideas concerning the expected future research directions of these fields the work is thus a timely guide to the topic these proceedings gather outstanding papers presented at the china sae congress 2021 held on oct 19 21 shanghai china featuring contributions mainly from china the biggest carmaker as well as most dynamic car market in the world the book covers a wide range of automotive related topics and the latest technical advances in the industry many of the approaches in the book will help technicians to solve practical problems that affect their daily work in addition the book offers valuable technical support to engineers researchers and postgraduate students in the field of automotive engineering addresses the rapidly growing field of fractional calculus and provides simplified solutions for linear commensurate order fractional differential equations the fractional trigonometry with applications to fractional differential equations and science is the result of the authors work in fractional calculus and more particularly in functions for the solutions of fractional differential equations which is fostered in the behavior of generalized exponential functions the authors discuss how fractional trigonometry plays a role analogous to the classical trigonometry for the fractional calculus by providing solutions to linear fractional differential equations

the book begins with an introductory chapter that offers insight into the fundamentals of fractional calculus and topical coverage is then organized in two main parts part one develops the definitions and theories of fractional exponentials and fractional trigonometry part two provides insight into various areas of potential application within the sciences the fractional exponential function via the fundamental fractional differential equation the generalized exponential function and r function relationships are discussed in addition to the fractional hyperboletry the r1 fractional trigonometry the r2 fractional trigonometry and the r3 trigonometric functions the fractional trigonometry with applications to fractional differential equations and science also presents fractional trigonometry as a tool for scientists and engineers and discusses how to apply fractional order methods to the current toolbox of mathematical modelers employs a mathematically clear presentation in an effort to make the topic broadly accessible includes solutions to linear fractional differential equations and generously features graphical forms of functions to help readers visualize the presented concepts provides effective and efficient methods to describe complex structures the fractional trigonometry with applications to fractional differential equations and science is an ideal reference for academic researchers research engineers research scientists mathematicians physicists biologists and chemists who need to apply new fractional calculus methods to a variety of disciplines the book is also appropriate as a textbook for graduate and phd level courses in fractional calculus carl f lorenzo is distinguished research associate at the nasa glenn research center in cleveland ohio his past positions include chief engineer of the instrumentation and controls division and chief of the advanced controls technology and systems dynamics branches at nasa he is internationally recognized for his work in the development and application of the fractional calculus and fractional trigonometry tom t hartley phd is emeritus professor in the department of electrical and computer engineering at the university of akron dr hartley is a recognized expert in fractional order systems and together with carl lorenzo has solved fundamental problems in the area including riemann's complementary function initialization function problem he received his phd in electrical engineering from vanderbilt university discovery pinpoints market tops and bottoms to the day combines cyclical action with price action using a 6 step strategy excellent results in every market every time period long term short term day trading excitable media comprise a class of models for a wide range of physical chemical and biological systems that exhibit spontaneous formation of spatial patterns patterns in excitable media genesis dynamics and control explores several aspects of the dynamics of such patterns in particular their evolution upon interaction with structural and fun mechatronics and automation technology has led to technological change and innovation in all engineering fields affecting various disciplines including machine technology electronics and computing it plays a vital role in improving production efficiency reducing energy consumption and improving product quality and safety and will be central to the further advancement of technology and industry bringing convenience and innovation to even more areas this book presents the proceedings of icmat 2023 the 2nd international conference on mechatronics and automation technology held as a virtual event on 27 october 2023 the aim of the conference was to provide a platform for scientists scholars engineers and researchers from universities and scientific institutes around the world to share the latest research achievements in mechatronics and automation technology explore key challenges and research directions and promote the development and application of theory and technology in this field a total of 121 submissions were received for the conference of which 77 were ultimately accepted after a rigorous peer review process the papers cover a wide range of topics falling within the scope of mechatronics and automation technology including smart manufacturing digital manufacturing additive manufacturing robotics sensors control electronic and electrical engineering intelligent systems and automation technology as well as other related fields providing an overview of recent developments in mechatronics and automation technology the book will be of interest to all those working in the field solving the linear equation system  $n \times n$  can also be a problem for a computer even when the number of equations and unknowns is relatively small a few hundred all existing methods are burdened by at least one of the following problems 1 complexity of computation expressed through the number of operations required to be done to obtaining solution 2 unrestricted growth of the size of the intermediate result which causes overflow and underflow problems 3 changing the value of some coefficients in the input system which causes the instability of the solution 4 require certain conditions for convergence etc in this paper an approximate and exact methods for solving a system of linear equations with an arbitrary number of equations and the same number of unknowns is presented all the mentioned problems can be avoided by the proposed methods it is possible to define an algorithm that does not solve the system of equations in the usual mathematical way but still finds its exact solution in the exact number of steps already defined the methods consist of simple computations that are not cumulative at the same time the number of operations is acceptable even for a relatively large number of equations and unknowns in addition the algorithms allows the process to start from an arbitrary initial n tuple and always leads to the exact solution if it exists presents integral approaches to ecology that cross the boundaries of the humanities social sciences and biophysical sciences in the current era of increasing planetary interconnectedness ecological theories and practices are called to become more inclusive complex and comprehensive the diverse contributions to this book offer a range of integral approaches to ecology that cross the boundaries of the humanities and sciences and help us understand and respond to today's ecological challenges the contributors provide detailed analyses of assorted integral ecologies drawing on such founding figures and precursors as thomas berry leonardo boff holmes rolston iii ken wilber and edgar morin also included is research across the social sciences biophysical sciences and humanities discussing multiple worldviews and perspectives related to integral ecologies the variety of integral ecologies is both an accessible guide and an advanced supplement to the growing research for a more comprehensive understanding of ecological issues and the development of a peaceful just and sustainable planetary civilization with thirty revised and updated chapters the new edition of this classic text brings benefits to professors and students alike who will find new sections on many topics concerning modern food microbiology this authoritative book builds on the trusted and established sections on food preservation by modified atmosphere high pressure and pulsed electric field processing it further covers food borne pathogens food regulations fresh cut produce new food products and risk assessment and analysis in depth references appendixes illustrations index and thorough updating of taxonomies make this an essential for every food scientist this book constitutes the refereed proceedings of the 5th international conference on pattern recognition and machine intelligence premi 2013 held in kolkata india in december 2013 the 101 revised papers presented together with 9 invited talks were carefully reviewed and selected from numerous submissions the papers are organized in topical sections on pattern recognition machine learning image processing speech and video processing medical imaging document image processing soft computing bioinformatics and computational biology and social media mining this book explores tools and techniques for creating the arts with groups it provides insights into why workshops are such an effective and relevant form of creative practice throughout two experienced practitioners share successful principles and qualities they also include examples of workshops that explore ways of facilitating creative exploration the authors believe that underpinning any good workshop practice is an

understanding of what constitutes a workshop this is a process in which the relationship between artist researcher and participant audience maker and witness is fluid it extends each individual s abilities and connects doing to learning to inquiring in a single process the book itself is a dialogue on and an investigation into this practice it fully explores the specificities of workshop practice in relation to how it engages others in arts based research readers learn how workshops involve inquiry into six areas inquiry into subjects artistic processes skills self the world and relationships with others in the end this informed investigation helps practitioners to better reflect on their own approaches to arts based inquiry and research this in turn leads to a better understanding of how readers can use workshops for the maximum benefit of all participants both individuals and groups this book presents how multimedia data analysis information retrieval and indexing are central for comprehensive personalized adaptive quality care and the prolongation of independent living at home with sophisticated technologies in monitoring diagnosis and treatment multimodal data plays an increasingly central role in healthcare experts in computer vision image processing medical imaging biomedical engineering medical informatics physical education and motor control visual learning nursing and human sciences information retrieval content based image retrieval ehealth information fusion multimedia communications and human computer interaction come together to provide a thorough overview of multimedia analysis in medicine and daily life aiming to improve work efficiency in such areas as tillage in agriculture earth moving in civil engineering and tunnel making in sea bed operations this work offers an introduction to finite element method fem analysis of soil machine systems it explains the advantage of fem s numerical approach over traditional analytical and empirical methods of dealing with complex factors from nonlinear mechanical behaviour to geometric configurations reprint of the original first published in 1883 a one of a kind guide to using deterministic and probabilistic methods for solving problems in the biological sciences highlighting the growing relevance of quantitative techniques in scientific research mathematical methods in biology provides an accessible presentation of the broad range of important mathematical methods for solving problems in the biological sciences the book reveals the growing connections between mathematics and biology through clear explanations and specific interesting problems from areas such as population dynamics foraging theory and life history theory the authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters including biological modeling calculus differential equations dimensionless variables and descriptive statistics the following chapters examine standard discrete and continuous models using matrix algebra as well as difference and differential equations finally the book outlines probability statistics and stochastic methods as well as material on bootstrapping and stochastic differential equations which is a unique approach that is not offered in other literature on the topic in order to demonstrate the application of mathematical methods to the biological sciences the authors provide focused examples from the field of theoretical ecology which serve as an accessible context for study while also demonstrating mathematical skills that are applicable to many other areas in the life sciences the book s algorithms are illustrated using matlab but can also be replicated using other software packages including r mathematica and maple however the text does not require any single computer algebra package each chapter contains numerous exercises and problems that range in difficulty from the basic to more challenging to assist readers with building their problem solving skills selected solutions are included at the back of the book and a related site features supplemental material for further study extensively class tested to ensure an easy to follow format mathematical methods in biology is an excellent book for mathematics and biology courses at the upper undergraduate and graduate levels it also serves as a valuable reference for researchers and professionals working in the fields of biology ecology and biomathematics the g k chesterton collection 50 books g k chesterton 50 books in one 22 non fiction 11 fiction 8 biographies 4 poetry 1 play 3 critiques 1 introduction over 2 3 million words in one e book includes an introduction to gilbert keith chesterton includes an active index to all books and 50 table of contents for each book includes illustrations by claude monet gilbert keith chesterton 1874 1936 was an english writer he wrote on philosophy ontology poetry plays journalism public lectures and debates literary and art criticism biography christian apologetics and fiction including fantasy and detective fiction chesterton is often referred to as the prince of paradox whenever possible chesterton made his points with popular sayings proverbs and allegories first carefully turning them inside out chesterton is well known for his reasoned apologetics and even some of those who disagree with him have recognized the universal appeal of such works as orthodoxy and the everlasting man chesterton as a political thinker cast aspersions on both progressivism and conservatism saying the whole modern world has divided itself into conservatives and progressives the business of progressives is to go on making mistakes the business of the conservatives is to prevent the mistakes from being corrected chesterton routinely referred to himself as an orthodox christian and came to identify such a position more and more with catholicism eventually converting to roman catholicism from high church anglicanism george bernard shaw chesterton s friendly enemy said of him he was a man of colossal genius included books gilbert keith chesterton non fiction heretics orthodoxy what s wrong with the world what i saw in america the new jerusalem irish impressions a short history of england eugenics and other evils the superstition of divorce the appetite of tyranny the crimes of england the blatchford controversies the victorian age in literature a miscellany of men alarms and discursions all things considered the defendant tremendous trifles utopia of usurers and other essays the uses of diversity essays by chesterton a chesterton calendar fiction the innocence of father brown the wisdom of father brown the man who was thursday the man who knew too much the napoleon of notting hill the flying inn manalive the ball and the cross the club of queer trades the trees of pride other stories biography varied types charles dickens appreciations and criticisms of the works of charles dickens george bernard shaw robert browning william blake g f watts biographies by chesterton poetry the ballad of the white horse the ballad of saint barbara the wild knight and other poems greybeards at play plays magic critiques gilbert keith chesterton by cecil chesterton gilbert keith chesterton by patrick braybrooke other g k chesterton critiques publisher catholic way publishing good press presents to you a meticulously edited g k chesterton collection this ebook has been designed and formatted to the highest digital standards and adjusted for readability on all devices content the father brown books the innocence of father brown the wisdom of father brown the incredulity of father brown the secret of father brown the scandal of father brown the donnington affair the mask of midas novels the napoleon of notting hill the man who was thursday the ball and the cross manalive the flying inn the return of don quixote short stories the club of queer trades the man who knew too much the trees of pride tales of the long bow the poet and the lunatics four faultless felons the paradoxes of mr pond the white pillars murder the sword of wood poetry greybeards at play the wild knight and other poems wine water and song poems 1916 the ballad of st barbara and other verses the ballad of the white horse gloria in profundis ubi ecclesia rotarians plays magic a fantastic comedy the turkey and the turk literary criticism a defence of penny dreadfuls appreciations and criticisms of the works of charles dickens the victorian age in literature charles dickens critical study hilaire belloc robert louis stevenson historical works a short history of england the barbarism of berlin letters to an old garibaldian the crimes of england the new jerusalem

theological works heretics orthodoxy the everlasting man the catholic church and conversion eugenics and other evils essays the defendant varied types all things considered tremendous trifles what's wrong with the world miscellany of men divorce versus democracy the superstition of divorce the uses of diversity fancies versus fads the outline of sanity the thing come to think all is grist as i was saying autobiography by g k chesterton g k chesterton a critical study by julius west this book presents the theory of large signal nonlinear impulse processes occurring in bipolar and field effect transistors with a schottky gate collapse trapatt and tunnel diodes superlattices and double heterojunction lasers it evaluates the maximum speed of impulse operation of these elements and experimentally constructs the generation of pulse oscillations with a repetition frequency of up to 1 2 and 4 ghz original or adapted methods of mathematical modeling of processes provide an opportunity to obtain quantitative dependencies of generated pulse parameters while the book also details the synchro photon effect in addition as shown here when a semiconductor element is switched on by an electric pulse and at the same time a pulse of photons synchronously illuminates it an effect occurs which increases the switching speed of the element by an order of magnitude at the same time the switching transient characteristic is shortened by 10 times or more after applying this effect in pulse generators in the gigahertz frequency range an increase in the repetition frequency of the generated oscillations is possible renowned for being the definitive resource for homicide investigators practical homicide investigation tactics procedures and forensic techniques details the recognized protocols used by investigative divisions of major police departments throughout the world the text is used in most police academies including the fbi academy in quantico virginia now in its fifth edition the book begins with a comprehensive discussion of homicide crime scenes and moves chronologically from initial police notification the correct police response that follows and the subsequent steps necessary to conduct an intelligent investigation it then delves into the more technical aspects of homicide investigation augmented with numerous pictures and full color illustrations that involve pertinent case histories this latest edition includes three new chapters along with fully revised chapters with new case histories and techniques that reflect the latest forensic methods and modern investigative procedures highlights of the fifth edition include newly revised homicide investigator's checklist a new chapter on the latest dna technology a rewritten chapter on equivocal death investigations that includes staged crime scenes additional information on modes of death fully updated chapters on death notifications sex related homicide management for police administrators suicide investigation and narcotics related and homosexually based homicides over 920 photos and illustrations 250 new photographs and several new case histories eminent author lecturer consultant and expert witness vernon j geberth incorporates his more than four and a half decades of real world law enforcement experience in this quintessential reference this classic and must have resource provides the most vital information needed by detectives and police investigators responsible for cases in violent and sudden death remember do it right the first time you only get one chance vernon j geberth m s m p s homicide and forensic consultant author of practical homicide investigation and series editor of the practical aspects of criminal and forensic investigations crime scene investigation laboratory manual second edition is written by a former crime scene investigator and forensic scientist who provides practical straightforward and immediately applicable best practices readers will learn the latest techniques and procedures including deconstructing first responder contamination the preliminary walk through utilizing associative evidence enhancing trace biological and chemical evidence and reconstructing scenes through wound dynamics glass fracture patterns bloodstain patterns ballistics and more this lab manual provides information and examples for all aspects of crime scene investigation in addition included exercises teach the proper techniques for securing documenting and sealing a crime scene how to visualize or enhance the evidence found how to package and preserve the evidence and how to reconstruct what happened at the crime scene this manual is intended to accompany any crime scene investigation textbook designed to complement any text used in crime scene investigation courses contains over 20 proven exercises and material from actual crime scenes providing students with hands on learning written by an experienced educator and former crime scene investigator forensic scientist the 5th international workshop on medical imaging and augmented reality miar 2010 was held at the china national convention center cncc b jing china on september 19 20 2010 miar has remained a truly international meeting bringing together searchers from all elds related to medical image analysis visualization and targeted intervention in recent years technical advances in therapeutic delivery andagrowingdemandforpatient speci ctreatmentshaveacceleratedtheclinical applications of miar related techniques imaging plays an increasingly imp tant role in targeted therapy with interventions such as drug or gene therapy relying on more accurate delivery tailored to individual patients rapid progress in surgical methodologies such as those with robot assistance demands p cise guidance from both preoperative and intraoperative imaging the volume of data available from existing and emerging imaging modalities leads to a sire for more automated analysis for diagnosis segmentation and registration research in this rapidly developing area is highly multi disciplinary integrating research in life sciences physical sciences engineering and medicine



## Transactions

1895

volume is indexed by thomson reuters cpci s was this book brings together 389 pieces of peer this book brings together 389 peer reviewed papers on manufacturing science and measuring technology it provides the reader with a broad overview of the latest advances in the field of manufacturing science and measuring technology it is divided into chapter 1 manufacturing and design science chapter 2 materials science and engineering chapter 3 measuring technology and mechatronics

## A Text Book of Elementary Design

2019-07-11

this introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary the authors are seasoned educators with decades of experience teaching optics their approach is to gradually present mathematics explaining the physical concepts it covers ray tracing to the wave nature of light and introduces maxwell s equations in an organic fashion the text then moves on to explains how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics ajawad i haija is a professor of physics at indiana university of pennsylvania m z numan is professor and chair of the department of physics at indiana university of pennsylvania w larry freeman is emeritus professor of physics at indiana university of pennsylvania

## Engineering Project Management

1905

this set comprises selected peer reviewed papers from the 2011 international conference on mechanical engineering and materials science icmems 2011 held on september 24 25th 2011 at cheju island korea volume is indexed by thomson reuters cpci s was the objective of icmems 2011 was to provide a forum where researchers educators engineers and government officials involved in the above fields could circulate their latest research results and exchange ideas concerning the expected future research directions of these fields the work is thus a timely guide to the topic

## ***Bulletin***

2012-04-12

these proceedings gather outstanding papers presented at the china sae congress 2021 held on oct 19 21 shanghai china featuring contributions mainly from china the biggest carmaker as well as most dynamic car market in the world the book covers a wide range of automotive related topics and the latest technical advances in the industry many of the approaches in the book will help technicians to solve practical problems that affect their daily work in addition the book offers valuable technical support to engineers researchers and postgraduate students in the field of automotive engineering

## **Frontiers of Manufacturing Science and Measuring Technology II**

2018-02-21

addresses the rapidly growing field of fractional calculus and provides simplified solutions for linear commensurate order fractional differential equations the fractional trigonometry with applications to fractional differential equations and

science is the result of the authors work in fractional calculus and more particularly in functions for the solutions of fractional differential equations which is fostered in the behavior of generalized exponential functions the authors discuss how fractional trigonometry plays a role analogous to the classical trigonometry for the fractional calculus by providing solutions to linear fractional differential equations the book begins with an introductory chapter that offers insight into the fundamentals of fractional calculus and topical coverage is then organized in two main parts part one develops the definitions and theories of fractional exponentials and fractional trigonometry part two provides insight into various areas of potential application within the sciences the fractional exponential function via the fundamental fractional differential equation the generalized exponential function and r function relationships are discussed in addition to the fractional hyperboletry the r1 fractional trigonometry the r2 fractional trigonometry and the r3 trigonometric functions the fractional trigonometry with applications to fractional differential equations and science also presents fractional trigonometry as a tool for scientists and engineers and discusses how to apply fractional order methods to the current toolbox of mathematical modelers employs a mathematically clear presentation in an effort to make the topic broadly accessible includes solutions to linear fractional differential equations and generously features graphical forms of functions to help readers visualize the presented concepts provides effective and efficient methods to describe complex structures the fractional trigonometry with applications to fractional differential equations and science is an ideal reference for academic researchers research engineers research scientists mathematicians physicists biologists and chemists who need to apply new fractional calculus methods to a variety of disciplines the book is also appropriate as a textbook for graduate and phd level courses in fractional calculus carl f lorenzo is distinguished research associate at the nasa glenn research center in cleveland ohio his past positions include chief engineer of the instrumentation and controls division and chief of the advanced controls technology and systems dynamics branches at nasa he is internationally recognized for his work in the development and application of the fractional calculus and fractional trigonometry tom t hartley phd is emeritus professor in the department of electrical and computer engineering at the university of akron dr hartley is a recognized expert in fractional order systems and together with carl lorenzo has solved fundamental problems in the area including riemann s complementary function initialization function problem he received his phd in electrical engineering from vanderbilt university

### ***Concise Optics***

2011-10-24

discovery pinpoints market tops and bottoms to the day combines cyclical action with price action using a 6 step strategy excellent results in every market every time period long term short term day trading

### ***Mechanical Engineering and Materials Science***

2022-10-22

excitable media comprise a class of models for a wide range of physical chemical and biological systems that exhibit spontaneous formation of spatial patterns patterns in excitable media genesis dynamics and control explores several aspects of the dynamics of such patterns in particular their evolution upon interaction with structural and fun

### **Proceedings of China SAE Congress 2021: Selected Papers**

2016-11-14

mechatronics and automation technology has led to technological change and innovation in all engineering fields affecting various disciplines including machine technology electronics and computing it plays a vital role in improving production efficiency reducing energy consumption and improving product quality and safety and will be central to the further advancement of technology and industry bringing convenience and innovation to even more areas this book presents the proceedings of icmat 2023 the 2nd international conference on mechatronics and automation technology held as a virtual event on 27 october 2023 the aim of the conference was to provide a platform for scientists scholars engineers and researchers from universities and scientific institutes around the world to share the latest research achievements in mechatronics and automation technology explore key challenges and research directions and promote the development and application of theory and technology in this field a total of 121 submissions were received for the conference of which 77 were ultimately accepted after a rigorous peer review process the papers cover a wide range of topics falling within the scope of mechatronics and automation technology including smart manufacturing digital manufacturing additive manufacturing robotics sensors control electronic and electrical engineering intelligent systems and automation technology as well as other related fields providing an overview of recent developments in mechatronics and automation technology the book will be of interest to all those working in the field

## The Fractional Trigonometry

1988

solving the linear equation system  $n \times n$  can also be a problem for a computer even when the number of equations and unknowns is relatively small a few hundred all existing methods are burdened by at least one of the following problems 1 complexity of computation expressed through the number of operations required to be done to obtaining solution 2 unrestricted growth of the size of the intermediate result which causes overflow and underflow problems 3 changing the value of some coefficients in the input system which causes the instability of the solution 4 require certain conditions for convergence etc in this paper an approximate and exact methods for solving a system of linear equations with an arbitrary number of equations and the same number of unknowns is presented all the mentioned problems can be avoided by the proposed methods it is possible to define an algorithm that does not solve the system of equations in the usual mathematical way but still finds its exact solution in the exact number of steps already defined the methods consist of simple computations that are not cumulative at the same time the number of operations is acceptable even for a relatively large number of equations and unknowns in addition the algorithms allows the process to start from an arbitrary initial  $n$  tuple and always leads to the exact solution if it exists

## The Price Spiral Method

2014-12-13

presents integral approaches to ecology that cross the boundaries of the humanities social sciences and biophysical sciences in the current era of increasing planetary interconnectedness ecological theories and practices are called to become more inclusive complex and comprehensive the diverse contributions to this book offer a range of integral approaches to ecology that cross the boundaries of the humanities and sciences and help us understand and respond to today s ecological challenges the contributors provide detailed analyses of assorted integral ecologies drawing on such founding figures and precursors as thomas berry leonardo boff holmes rolston iii ken wilber and edgar morin also included is research across the social sciences biophysical sciences and humanities discussing multiple worldviews and perspectives related to integral ecologies the variety of integral ecologies is both an accessible guide and an advanced supplement to the growing research for a more comprehensive understanding of ecological issues and the development of a peaceful just and sustainable planetary civilization

## Patterns in Excitable Media

2024-02-27

with thirty revised and updated chapters the new edition of this classic text brings benefits to professors and students alike who will find new sections on many topics concerning modern food microbiology this authoritative book builds on the trusted and established sections on food preservation by modified atmosphere high pressure and pulsed electric field processing it further covers food borne pathogens food regulations fresh cut produce new food products and risk assessment and analysis in depth references appendixes illustrations index and thorough updating of taxonomies make this an essential for every food scientist

## *Mechatronics and Automation Technology*

2019-12-01

this book constitutes the refereed proceedings of the 5th international conference on pattern recognition and machine intelligence premi 2013 held in kolkata india in december 2013 the 101 revised papers presented together with 9 invited talks were carefully reviewed and selected from numerous submissions the papers are organized in topical sections on pattern recognition machine learning image processing speech and video processing medical imaging document image processing soft computing bioinformatics and computational biology and social media mining



## How to Solve Large Linear Systems

2017-04-24

this book explores tools and techniques for creating the arts with groups it provides insights into why workshops are such an effective and relevant form of creative practice throughout two experienced practitioners share successful principles and qualities they also include examples of workshops that explore ways of facilitating creative exploration the authors believe that underpinning any good workshop practice is an understanding of what constitutes a workshop this is a process in which the relationship between artist researcher and participant audience maker and witness is fluid it extends each individual s abilities and connects doing to learning to inquiring in a single process the book itself is a dialogue on and an investigation into this practice it fully explores the specificities of workshop practice in relation to how it engages others in arts based research readers learn how workshops involve inquiry into six areas inquiry into subjects artistic processes skills self the world and relationships with others in the end this informed investigation helps practitioners to better reflect on their own approaches to arts based inquiry and research this in turn leads to a better understanding of how readers can use workshops for the maximum benefit of all participants both individuals and groups

## The Variety of Integral Ecologies

2008-02-05

this book presents how multimedia data analysis information retrieval and indexing are central for comprehensive personalized adaptive quality care and the prolongation of independent living at home with sophisticated technologies in monitoring diagnosis and treatment multimodal data plays an increasingly central role in healthcare experts in computer vision image processing medical imaging biomedical engineering medical informatics physical education and motor control visual learning nursing and human sciences information retrieval content based image retrieval ehealth information fusion multimedia communications and human computer interaction come together to provide a thorough overview of multimedia analysis in medicine and daily life

## Modern Food Microbiology

2013-12-09

aiming to improve work efficiency in such areas as tillage in agriculture earth moving in civil engineering and tunnel making in sea bed operations this work offers an introduction to finite element method fem analysis of soil machine systems it explains the advantage of fem s numerical approach over traditional analytical and empirical methods of dealing with complex factors from nonlinear mechanical behaviour to geometric configurations

## Pattern Recognition and Machine Intelligence

2023-06-26

reprint of the original first published in 1883

## Workshop: The Art of Creative Inquiry

1975

a one of a kind guide to using deterministic and probabilistic methods for solving problems in the biological sciences highlighting the growing relevance of quantitative techniques in scientific research mathematical methods in biology

provides an accessible presentation of the broad range of important mathematical methods for solving problems in the biological sciences the book reveals the growing connections between mathematics and biology through clear explanations and specific interesting problems from areas such as population dynamics foraging theory and life history theory the authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters including biological modeling calculus differential equations dimensionless variables and descriptive statistics the following chapters examine standard discrete and continuous models using matrix algebra as well as difference and differential equations finally the book outlines probability statistics and stochastic methods as well as material on bootstrapping and stochastic differential equations which is a unique approach that is not offered in other literature on the topic in order to demonstrate the application of mathematical methods to the biological sciences the authors provide focused examples from the field of theoretical ecology which serve as an accessible context for study while also demonstrating mathematical skills that are applicable to many other areas in the life sciences the book s algorithms are illustrated using matlab but can also be replicated using other software packages including r mathematica and maple however the text does not require any single computer algebra package each chapter contains numerous exercises and problems that range in difficulty from the basic to more challenging to assist readers with building their problem solving skills selected solutions are included at the back of the book and a related site features supplemental material for further study extensively class tested to ensure an easy to follow format mathematical methods in biology is an excellent book for mathematics and biology courses at the upper undergraduate and graduate levels it also serves as a valuable reference for researchers and professionals working in the fields of biology ecology and biomathematics

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2017-11-13

this book presents the theory of large signal nonlinear impulse processes occurring in bipolar and field effect transistors with a schottky gate collapse trapatt and tunnel diodes superlattices and double heterojunction lasers it evaluates the maximum speed of impulse operation of these elements and experimentally constructs the generation of pulse oscillations with a repetition frequency of up to 1 2 and 4 ghz original or adapted methods of mathematical modeling of processes provide an opportunity to obtain quantitative dependencies of generated pulse parameters while the book also details the synchro photon effect in addition as shown here when a semiconductor element is switched on by an electric pulse and at the same time a pulse of photons synchronously illuminates it an effect occurs which increases the switching speed of the element by an order of magnitude at the same time the switching transient characteristic is shortened by 10 times or more after applying this effect in pulse generators in the gigahertz frequency range an increase in the repetition frequency of the generated oscillations is possible

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