

The African–American Heart Surgery PioneerThe Woman Who Invented the Thread that Stops BulletsThe Man Who Invented the Game of BasketballThe Man Who Invented the LaserCommon Fragrance and Flavor MaterialsSemantic Intelligent Computing and ApplicationsIndustry 5.0Artificial Intelligence for Virtual RealityThe Horror Show GuideState, Society and Information Technology in AsiaComputational Intelligence in Software ModelingEconomic Dynamics with MemoryFractional Signals and SystemsRietveld RefinementNumerical Simulation of Incompressible Viscous FlowBitcoin: A Game–Theoretic AnalysisBasic Data Structures and Program StatementsCommunicating ProjectsIntegral Transforms and ApplicationsAlgorithms Edwin Brit Wyckoff Edwin Brit Wyckoff Edwin Brit Wyckoff Edwin Brit Wyckoff Horst Surburg Mangesh M. Ghonge Yousaf Bin Zikria Jude Hemanth Mike Mayo Dr Alan Chong Chia Siong Vishal Jain Vasily E. Tarasov Manuel Duarte Ortigueira Robert E. Dinnebier Roland Glowinski Micah Warren Xingni Zhou Ann Pilkington Nita H. Shah Sushil C. Dimri

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vivien theodore thomas was an african american surgical technician who developed the procedures used to treat blue baby syndrome in the 1940s he was an assistant to surgeon alfred blalock in blalock s experimental animal laboratory at vanderbilt university in nashville tennessee and later at the johns hopkins university in baltimore maryland without any education past high school thomas rose above poverty and racism to become a cardiac surgery pioneer and a teacher of operative techniques to many of the country s most prominent surgeons vivien thomas was the first african american without a doctorate to perform open heart surgery on a white patient in the united states

stephanie louise kwolek is an american chemist who invented poly paraphenylene terephthalamide better known as kevlar she was born in the pittsburgh suburb of new kensington pennsylvania in 1964 in anticipation of a gasoline shortage her group began searching for a lightweight yet strong fiber to be used in tires the polymers she had been working with at the time formed liquid crystal while in solution something unique to those polymers at the time however kwolek persuaded technician charles smullen to test her solution she was amazed to find that the new fiber would not break when nylon typically would

dr james naismith was a canadian american sports coach and innovator he invented the sport of basketball in 1891 and is often credited with introducing the first football helmet he wrote the original basketball rulebook founded the university of kansas basketball program and lived to see basketball adopted as an olympic demonstration sport in 1904 and as an official event at the 1936 summer olympics in berlin as well as the birth of both the national invitation tournament 1938 and the ncaa men s division i basketball championship 1939

maiman was a graduate of the university of colorado which awarded him a b s in engineering physics in 1949 later he received his ph d in physics in 1955 from stanford university and began work at the hughes research laboratory hrl there he concentrated on creating a device capable of converting mixed frequency electromagnetic radiation into highly amplified and coherent light of discrete frequency maiman later found that the accepted calculations of the fluorescence quantum efficiency of ruby were wrong and that the material could be used for his research his persistence with ruby eventually paid off for on may 16 1960 the device he built using it became the world s first operable laser

this 6th edition is thoroughly revised and updated and now additionally includes all commercially important flavor and fragrance materials that entered the market over the past 10 years in one handy and up to date source this classic reference surveys those natural and synthetic materials that are commercially available produced and used on a relatively large scale covering their properties manufacturing methods employed and areas of application for this new edition the chapter on essential oils has been completely revised with regard to production volumes availability and new product specifications while new legal issues such as reach regulation aspects are now included finally the cas registry numbers and physicochemical data of over 350 single substances and 100 essential oils have been updated and revised

artificial intelligence advancements machine intelligence innovations and semantic web developments together make up semantic intelligence technologies the edited book integrates artificial intelligence machine learning iot blockchain and natural language processing with semantic web technologies this book also aims to offer real life solutions to the pressing issues currently being faced by semantic web technologies

the new paradigm industry 5.0 promises great shifts not only in industry but also in business and consumption models with the help of data science and internet of things manufacturers focus on delivering in real time and customers will benefit from personalized products robots and cobots will collaborate with the humans this book explains various facets of industry 5.0 focusing on its applications on medical research and manufacturing

this book explores the possible applications of artificial intelligence in virtual environments these were previously mainly associated with gaming but have largely extended their area of application and are nowadays used for promoting collaboration in work environments for training purposes for management of anxiety and pain etc the development of artificial intelligence has given new dimensions to the research in this field

this cinefile's guidebook covers the horror genre monstrously well find reviews of over 1,000 of the best weirdest wickedest wackiest and most entertaining scary movies from every age of horror atomic bombs mad serial killers zealous zombies maniacal monsters lurking around every corner and the unleashing of technology rapidly changing and dominating our lives slasher and splatter films italian giallo and japanese city stomping monster flicks psychological horrors spoofs and nature running amuck you will find these terrors and many more in the horror show guide the ultimate frightfest of movies no gravestone is left unturned to bring you entertaining critiques fascinating top ten lists numerous photos and extensive credit information to satisfy even the most die hard fans written by a fan for fans the horror show guide helps lead even the uninitiated to unexpected treasures of unease and mayhem with lists of similar motifs including urban horrors nasty bugs mad scientists and maniacal medicos evil dolls bad hair days big bad werewolves most appetizing cannibals classic ghost stories fiendish families guilty pleasures literary adaptations horrible highways and byways post apocalyptic horrors most regrettable remakes towns with a secret and many more with reviews on many overlooked underappreciated gems new devotees and discriminating dark cinema enthusiasts alike will love this big beautiful end all be all guide to an always popular film genre with many photos illustrations and other graphics the horror show guide is richly illustrated its helpful appendix of movie credits bibliography and extensive index add to its usefulness

calling attention to the unique social and political uses being made of it in asia in the service of offline and online causes predominantly filtered by pre existing social milieus the contributors examine the multiple dimensions of asian differences in the sociology and politics of it and show how present trends suggest that advanced electronic media will not necessarily be embraced in a smooth unilinear fashion throughout asia this book will appeal to any reader interested in the nexus between society and it in asia

researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering as

software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the efficiency of software engineering

this book presents the applications of fractional calculus fractional operators of non integer orders and fractional differential equations in describing economic dynamics with long memory generalizations of basic economic concepts notions and methods for the economic processes with memory are suggested new micro and macroeconomic models with continuous time are proposed to describe the fractional economic dynamics with long memory as well

the book illustrates the theoretical results of fractional derivatives via applications in signals and systems covering continuous and discrete derivatives and the corresponding linear systems both time and frequency analysis are presented some advanced topics are included like derivatives of stochastic processes it is an essential reference for researchers in mathematics physics and engineering

almost 50 years have passed since the famous papers of hugo rietveld from the late sixties where he describes a method for the refinement of crystal structures from neutron powder diffraction data soon after the potential of the method for laboratory x ray powder diffraction was discovered although the method is now widely accepted there are still many pitfalls in the theoretical understanding and in practical daily use this book closes the gap with a theoretical introduction for each chapter followed by a practical approach the flexible macro type language of the topas rietveld software can be considered as the defacto standard

this book on finite element based computational methods for solving incompressible viscous fluid flow problems shows readers how to apply operator splitting techniques to decouple complicated computational fluid dynamics problems into a sequence of relatively simpler sub problems at each time step such as hemispherical cavity flow cavity flow of an oldroyd b viscoelastic flow and particle interaction in an oldroyd b type viscoelastic fluid efficient and robust numerical methods for solving those resulting simpler sub problems are introduced and discussed interesting computational results are presented to show the capability of methodologies addressed in the book

the definitive guide to the game theoretic and probabilistic underpinning for bitcoin's security model the book begins with an overview of probability and game theory nakamoto consensus is discussed in both practical and theoretical terms this volume describes attacks and exploits with mathematical justifications including selfish mining identifies common assumptions such as the market fragility hypothesis establishing a framework for analyzing incentives to attack outlines the block reward schedule and economics of asic mining discusses how adoption by institutions would fundamentally change the security model analyzes incentives for double spend

and sabotage attacks via stock flow models overviews coalitional game theory with applications to majority takeover attacks presents nash bargaining with application to unregulated environments this book is intended for students or researchers wanting to engage in a serious conversation about the future viability of bitcoin as a decentralized censorship resistant peer to peer electronic cash system

this book covers c programming focussing on its practical side volume 1 deals mainly with basic data structures algorithms and program statements an extensive use of figures and examples help to give a clear description of concepts help the reader to gain a systematic understanding of the language

every programme and project manager knows that they need interaction and engagement to be truly effective but their understanding of what good communication looks like can vary all too often people are put into communication roles without the necessary skills or experience whilst there are many texts on public relations and an increasing number on internal employee communication programme and project communication spans a number of disciplines and has its own requirements communicating projects gives programme and project communicators a framework for developing an effective strategy that goes well beyond inter programme project communication and looks at how to achieve behaviour change and even increase employee engagement through the process the book follows a best practice model for communication strategy development and planning the model is supplemented with vignettes that explore communication concepts in more detail for example employee engagement communication theory and persuasion at the same time the text follows the project lifecycle with the appropriate approaches for initiation development and delivery stages outlined if you accept the crucial role communication plays in securing project success then this book is a must have guide for any project manager or anyone tasked with stakeholder engagement

this work presents the guiding principles of integral transforms needed for many applications when solving engineering and science problems as a modern approach to laplace transform fourier series and z transforms it is a valuable reference for professionals and students alike

algorithms are ubiquitous in the contemporary technological world and they ultimately consist of finite sequences of instructions used to accomplish tasks with necessary input values this book analyses the top performing algorithms in areas as diverse as big data artificial intelligence optimization techniques and cloud cyber security systems in order to explore their power and limitations

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