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Eucken Sietse Bernard Koopman Daina M. Briedis Rajib Biswas  
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with the invention of computers and the advent of the internet mobile computing and e business applications information technology it has brought rapid progress in domestic and international business and a tremendous change in the lifestyle of people this book provides the students not just the knowledge about the fundamentals of a computer system like its organization memory management and hardware devices but also the software that run on it the book then proceeds to describe operating systems and the basics of programming concepts like procedure oriented programming and object oriented programming useful application software like ms word ms excel and ms powerpoint are described in great detail in separate chapters a complete section has been devoted to the teaching of data communication networking and internet the book ends with a detailed description of the business applications of computers key features incorporates basics of it along with developing skills for using various it tools includes diagrams pictures and screenshots provides key terms review questions practical exercises group discussions project activities and application based case studies in each chapter follows the latest curriculum and guidelines for undergraduate and postgraduate courses of various universities colleges and institutes

suitable for a one semester course this text covers the basic principles and equations of fluids in the context of numerous diverse real world engineering examples and it helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics

this volume gives an overview of the state of the art with respect to the development of all types of parallel computers and their application to a wide range of problem areas the international conference on parallel computing parco97 parallel computing 97 was held in bonn germany from 19 to 22 september 1997 the first conference in this biannual series was held in 1983 in berlin further conferences were held in leiden the netherlands london uk grenoble france and gent belgium from the outset the aim with the parco parallel computing conferences was to promote the application of parallel computers to solve real life problems in the case of parco97 a new milestone was reached in that more than half of the papers and posters presented were concerned with application aspects this fact reflects the coming

of age of parallel computing some 200 papers were submitted to the program committee by authors from all over the world the final programme consisted of four invited papers 71 contributed scientific industrial papers and 45 posters in addition a panel discussion on parallel computing and the evolution of cyberspace was held during and after the conference all final contributions were refereed only those papers and posters accepted during this final screening process are included in this volume the practical emphasis of the conference was accentuated by an industrial exhibition where companies demonstrated the newest developments in parallel processing equipment and software speakers from participating companies presented papers in industrial sessions in which new developments in parallel computing were reported

agricultural mechanics fundamentals and applications is a newly expanded fourth edition text providing the latest information in the diversified field of agricultural mechanics with instruction on basic mechanical skills and applications as well as career opportunities in the profession topics covered range from tool identification and maintenance small engines electricity and electronics to construction and masonry readers will find the content presented in a logical easy to follow format allowing them to comprehend concepts for use in practical settings vividly portrayed illustrations complement this work with the most current full color photos charts and diagrams reinforcing the book s fluid movement between the principles and application of modern agricultural mechanics the comprehensive appendices also include extensive reference material making agricultural mechanics fundamentals and applications an invaluable industry resource guide

this book compiles the fundamentals applications and viable product strategies of biomimetic lipid membranes into a single comprehensive source it broadens its perspective to interdisciplinary realms incorporating medicine biology physics chemistry materials science as well as engineering and pharmacy at large the book guides readers from membrane structure and models to biophysical chemistry and functionalization of membrane surfaces it then takes the reader through a myriad of surface sensitive techniques before delving into cutting edge applications that could help inspire new research directions with more than half the world s drugs and various toxins targeting

these crucial structures the book addresses a topic of major importance in the field of medicine particularly biosensor design diagnostic tool development vaccine formulation micro nano array systems and drug screening development provides fundamental knowledge on biomimetic lipid membranes addresses some of biomimetic membrane types preparation methods properties and characterization techniques explains state of art technological developments that incorporate microfluidic systems array technologies lab on a chip tools biosensing and bioprinting techniques describes the integration of biomimetic membranes with current top notch tools and platforms examines applications in medicine pharmaceutical industry and environmental monitoring

the goal of this work is to present the principles of functional analysis in a clear and concise way the first three chapters of functional analysis fundamentals and applications describe the general notions of distance integral and norm as well as their relations the three chapters that follow deal with fundamental examples lebesgue spaces dual spaces and sobolev spaces two subsequent chapters develop applications to capacity theory and elliptic problems in particular the isoperimetric inequality and the pólya szegő and faber krahm inequalities are proved by purely functional methods the epilogue contains a sketch of the history of functional analysis in relation with integration and differentiation starting from elementary analysis and introducing relevant recent research this work is an excellent resource for students in mathematics and applied mathematics

this edition is fully revised to reflect the current state off the field significant additions include ultramicroelectrodes modified electrodes and scanning probe methods many chapters have been modified and improved including electrode kinetics voltammetric methods and mechanisms of coupled chemical reactions

now in its third edition the artech house bestseller fundamentals and applications of microfluidics provides engineers and students with the most complete and current coverage of this cutting edge field this revised and expanded edition provides updated discussions throughout and features critical new material on microfluidic power sources sensors cell separation organ on chip and drug delivery systems 3d culture devices droplet based chemical synthesis paper based microfluidics for point of care

ion concentration polarization micro optofluidics and micro magnetofluidics the book shows how to take advantage of the performance benefits of microfluidics and serves as an instant reference for state of the art microfluidics technology and applications readers find discussions on a wide range of applications including fluid control devices gas and fluid measurement devices medical testing equipment and implantable drug pumps professionals get practical guidance in choosing the best fabrication and enabling technology for a specific microfluidic application and learn how to design a microfluidic device moreover engineers get simple calculations ready to use data tables and rules of thumb that help them make design decisions and determine device characteristics quickly

a thorough introduction to the fundamentals and applications of microscopic and macroscopic mass transfer

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this book gives a comprehensive overview of recent advancements in both theory and practical implementation of plasmonic probes encompassing multiple disciplines the field of plasmonics provides a versatile and flexible platform for nanoscale sensing and imaging despite being a relatively young field plasmonic probes have come a long way with applications in chemical

biological civil and architectural fields as well as enabling many analytical schemes such as immunoassay biomarkers environmental indexing and water quality sensing to name but a few the objective of the book is to present in depth analysis of the theory and applications of novel probes based on plasmonics with a broad selection of specially invited chapters on the development fabrication functionalization and implementation of plasmonic probes as well as their integration with current technologies and future outlook this book is designed to cater to the needs of novice seasoned researchers and practitioners in academia and industry as well as medical and environmental fields

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