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step by step instructions enable chemical engineers to master key software programs and solve complex problems today both students and professionals in

chemical engineering must solve increasingly complex problems dealing with refineries fuel cells microreactors and pharmaceutical plants to name a few with this book as their guide readers learn to solve these problems using their computers and excel matlab aspen plus and comsol multiphysics moreover they learn how to check their solutions and validate their results to make sure they have solved the problems correctly now in its second edition introduction to chemical engineering computing is based on the author s firsthand teaching experience as a result the emphasis is on problem solving simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering including equations of state chemical reaction equilibria mass balances with recycle streams thermodynamics and simulation of mass transfer equipment process simulation fluid flow in two and three dimensions all the chapters contain clear instructions figures and examples to guide readers through all the programs and types of chemical engineering problems problems at the end of each chapter ranging from simple to difficult allow readers to gradually build their skills whether they solve the problems themselves or in teams in addition the book s accompanying website lists the core principles learned from each problem both from a chemical engineering and a computational perspective covering a broad range of disciplines and problems within chemical engineering introduction to chemical engineering computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem

in depth textbook style coverage combined with an intuitive low math approach makes this book particularly appealing to the wireless and networking markets new to this edition global wireless services including 3g antenna options error coding

overview white s fluid mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals the wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation the book s unique problem solving approach is presented at the start of the book and carefully integrated in all examples students can progress from general ones to those involving design multiple steps and computer usage mcgraw hill education s connect is also available as an optional add on item connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective connect allows the professor to assign homework quizzes and tests easily and automatically grades and records the scores of the student s work problems are randomized

to prevent sharing of answers and may also have a multi step solution which helps move the students learning along if they experience difficulty the eighth edition of fluid mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications the book helps students to see the practical importance of fluid mechanics fundamentals the wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation the problem solving approach is presented at the start of the book and carefully integrated in all examples students can progress from general examples to those involving design multiple steps and computer usage

vector and matrix algebra algebraic eigenproblems and their applications differential eigenproblems and their applications vector and matrix calculus analysis of discrete dynamical systems computational linear algebra numerical methods for differential equations finite difference methods for boundary value problems finite difference methods for initial value problems least squares methods data analysis curve fitting and interpolation optimization and root finding of algebraic systems data driven methods and reduced order modeling

this book deals with the implementation and application of the in the best interests of the child principle in research and practice with contributions by authors from nine different countries united states belgium france norway the netherlands united kingdom israel ireland canada an international perspective is adopted after the outline of the theme given in the introductory chapter the first part illustrates the search for theory driven and empirically based models to deal with the complexity of parenting in the second part illustrations about the implementation and application of the best interests principle in child and youth care practice are given part three is focusing on the organization of child and youth care systems according to the best interests principle

gods deities symbolism deposition cosmology and intentionality are all features of the study of early ritual and cult archaeology has great difficulties in providing satisfactory interpretation or recognition of these elusive but important parts of ancient society and methodologies are often poorly equipped to explore the evidence this collection of papers explores a wide range of prehistoric and early historic archaeological contexts from britain europe and beyond where monuments architectural structures megaliths art caves ritual activity and symbolic remains offer exciting glimpses into ancient belief systems and cult behaviour different theoretical and practical approaches are demonstrated offering both new directions and considered conclusions to the many problems of studying the archaeology of cult and ritual central to the volume is an exploration of early malta and its intriguing temple culture set in a broad

perspective by the discussion and theoretical approaches presented in different geographical and chronological contexts

it gives students an appreciation of the use of mathematics and encourages them to further study the applied topics

the second international symposium on inflammatory bowel diseases was held in jerusalem from september 8 11 1985 under the auspices of the israel academy of sciences the israel gastroenterological society and the hebrew university hadassah medical school five hundred physicians and researchers from 26 countries attended the symposium was organized into six panels devoted to state of the art reviews and presentations of the latest findings and approaches on etiology pathogenesis medical and surgical management of ibd and clinical assessment of disease in addition 89 abstracts were presented as posters during the symposium all of which were published in the book of abstracts the concluding panel outlined new directions for future research on ibd the organizing committee gratefully acknowledges all the contributors who presented their work in a clear and concise manner and to all the participants whose active role in the discussions contributed to the success of the meeting in view of the great interest in the symposium and the traditions established following the first in 1981 it was decided to convene a third international symposium on ibd in jerusalem in september 1989

inquiring into childhood is one of the most appropriate ways to address the perennial and essential question of what it is that makes human beings each of us human in childhood in history perceptions of children in the ancient and medieval worlds aasgaard horn and cojocarú bring together the groundbreaking work of nineteen leading scholars in order to advance interdisciplinary historical research into ideas about children and childhood in the premodern history of european civilization the volume gathers rich insights from fields as varied as pedagogy and medicine and literature and history drawing on a range of sources in genres that extend from philosophical theological and educational treatises to law art and poetry from hagiography and autobiography to school lessons and sagas these studies aim to bring together these diverse fields and source materials and to allow the development of new conversations this book will have fulfilled its unifying and explicit goal if it provides an impetus to further research in social and intellectual history and if it prompts both researchers and the interested wider public to ask new questions about the experiences of children and to listen to their voices

the british counterpart to sheehy in which it is recommended and vice versa distributed in the us by unipub volume 3 completes the 5th edition with 8 833 entries vol 1 science and technology 1989 5 995 entries vol 2 social and historical sciences philosophy and religion 1990 7 166 entries while the majority of items

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an updated accessible guide to satellite communications fundamentals and new developments this thoroughly revised classic guide to satellite communications provides in depth textbook style coverage combined with an intuitive low math approach the book covers the latest breakthroughs in global wireless applications digital television and internet access via satellite filled with worked out examples and more than 200 illustrations the new edition offers a clear state of the art presentation of all satellite communications topics written by two experienced electrical engineering professors satellite communications fifth edition fully aligns with the objectives of undergraduate and graduate courses in rf microwave communications with training for the needs of the aerospace industry and federal government agencies in mind readers will explore orbits and launching methods satellite and ground satcom systems radio wave propagation antennas analog and digital signals link analysis and error control coding expanded to emphasize calculations of signal to noise ratio snr and the importance of snr calculation losses ancillary suite includes homework problems with solutions manual powerpoint slides and a series of video lectures written by three scholars each with over 40 years of experience

abstract surgeons should be aware of and concerned about the importance of clinical nutrition to their field evidence now available indicates that traditional surgical considerations the healing of wounds and infection may be materially altered by both pre and post operative nutritional care a number of new methods as well as new principles in surgical nutrition have been developed in the surgical nutrition field in recent years this trend is expanding rapidly a brief history of clinical nutrition and essays on the fundamentals of nutrition energy sources and utilization and many aspects of the body s response to starvation and stress are provided

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