Free Of Solution Manual Fiber Optic Communication

Resistance of Concrete to Chloride IngressCellulite Solution, The Complete Guide to Being Cellulite FreeSeasonal Chlorination Practices and Impacts to Chloraminating UtilitiesSimple Solution EssaysGeneral ChemistryPolymer Biomaterials in Solution, As Interfaces And As SolidsStudies on "Perfect" Hyperbranched Chains Free in Solution and Confined in a Cylindrical PoreThe Cellulite SolutionMicrofluidicsLiving Allergy FreeAn Introduction to Fluid MechanicsSecure Your Network for FreeThe Gluten-Free SolutionEquations in Free SemigroupsFree RadicalsAutomated Solution of Differential Equations by the Finite Element MethodFree Energy Transduction and Biochemical Cycle KineticsThe South Beach Diet Gluten Solution CookbookConformational Studies of Organic Free Radicals in Solution by Electron Spin Resonance SpectroscopyIBM Power Systems 775 for AIX and Linux HPC SolutionRaw Food and GourmetDessert and LunchPhysiology and Pathophysiology of the HeartDifferential-algebraic EquationsAn Introduction to Category TheoryThe Solution RevolutionSPE/ANTEC 2000 ProceedingsMathematics and PoliticsThe SolutionSolution of Crack ProblemsI/EC. Industrial and engineering chemistryMobile Entity Localization and Tracking in GPS-less EnvironnmentsBiosensors and Their ApplicationsAn Introduction to the Physical Properties of Large Molecules in SolutionThe Sierras Weight-Loss Solution for Teens and KidsBeing The SolutionGravity-Capillary Free-Surface FlowsOn Systems of Equations Over Free Partially Commutative GroupsFree Boundary Problems Involving SolidsIntroduction to the Thermodynamics of Materials, Fifth Edition

Resistance of Concrete to Chloride Ingress

A twelve-week program based on the Academy of the Sierras weight-loss program that features weekly meal plans, a workout regimen, and tips for promoting family involvement, counsels young people on how to adopt a healthy lifestyle.

Cellulite Solution, The Complete Guide to Being Cellulite Free

What is cellulite?Where does it come from?What are today "s methods of removing cellulite?This must have guide to be cellulite free is full of information to answer these questions. From simple home remedies to the most advanced medical procedures.Making the right food choices: foods that fight cellulite.As an added bonus, you "ll receive SThe Perfect Butt Workout? Look inside.

Seasonal Chlorination Practices and Impacts to Chloraminating Utilities

Simple Solution Essays

Revised third edition of classic first-year text by Nobel laureate. Atomic and molecular structure, quantum mechanics, statistical mechanics, thermodynamics correlated with descriptive chemistry. Problems.

General Chemistry

This book is concerned with the numerical solution of crack problems. The techniques to be developed are particularly appropriate when cracks are relatively short, and are growing in the neighbourhood of some stress raising feature, causing a relatively steep stress gradient. It is therefore practicable to represent the geometry in an idealised way, so that a precise solution may be obtained. This contrasts with, say, the finite element method in which the geometry is modelled exactly, but the subsequent solution is approximate, and computationally more taxing. The family of techniques presented in this book, based loosely on the pioneering work of Eshelby in the late 1950's, and developed by Erdogan, Keer, Mura and many others cited in the text, present an attractive alternative. The basic idea is to use the superposition of the stress field present in the unfiawed body, together with an unknown distribution of 'strain nuclei' (in this book, the strain nucleus employed is the dislocation), chosen so that the crack faces become traction-free. The solution used for the stress field for the nucleus is chosen so that other boundary conditions are satisfied. The technique is therefore efficient, and may be used to model the evolution of a developing crack in two or three dimensions. Solution techniques are described in some detail, and the book should be readily accessible to most engineers, whilst preserving the rigour demanded by the researcher who wishes to develop the method itself.

Polymer Biomaterials in Solution, As Interfaces And As Solids

Free radicals, molecules with unpaired electrons, are highly reactive and play key roles in physiologic regulation and in many degenerative and pathologic processes, making them a fertile area of research. This book focuses on spin trapping, a sophisticated technique for the identification of free radicals in biological systems. The method is complex, and this book offers an in-depth guide to all of the critical aspects needed for its application to free radicals in biology. This includes advice on interpreting results, trouble-shooting, and experimental designs. The book looks at future directions in the field and will prove an invaluable resource for investigators working in the biology of free radicals, regardless of whether they are new or highly experienced in the applications of spin trapping.

Studies on "Perfect" Hyperbranched Chains Free in Solution and Confined in a Cylindrical Pore

This is the second of three volumes containing the proceedings of the International Colloquium 'Free Boundary Problems: Theory and Applications', held in Montreal from June 13 to June 22, 1990. The main theme of this volume is the concept of free boundary problems associated with solids. The first free boundary problem, the freezing of water - the Stefan problem - is the prototype of solidification problems which form the main part of this volume. The two sections treting this subject cover a large variety of topics and procedures, ranging from a theoretical mathematical treatment of solvability to numerical procedures for practical problems. Some new and interesting problems in solid mechanics are discussed in the first section while in the last section the important new subject of solid-solid-phase transition is examined.

The Cellulite Solution

This is a modern and elegant introduction to engineering fluid mechanics enriched with numerous examples, exercises and applications. A swollen creek tumbles over rocks and through crevasses, swirling and foaming. Taffy can be stretched, reshaped and twisted in various ways. Both the water and the taffy are fluids and their motions are governed by the laws of nature. The aim of this textbook is to introduce the reader to the analysis of flows using the laws of physics and the language of mathematics. We delve deeply into the mathematical analysis of flows; knowledge of the patterns fluids form and why they are formed and also the stresses fluids generate and why they are generated is essential to designing and optimising modern systems and devices. Inventions such as helicopters and lab-on-a-chip reactors would never have been designed without the insight provided by mathematical models.

Microfluidics

Struggling for more than 25 years with debilitating chronic pain that doctors could not understand, and enduring dozens of horrifying misdiagnoses from lupus to Lyme disease to leukemia, Gigi Stewart, M.A., was relieved when she learned celiac disease and multiple food allergies to soy, peanuts and tree nuts, as well as the need to eliminate dairy products, were responsible for her ill health. Instead of feeling restricted and deprived, Gigi immediately felt empowered and liberated as she combined her skills and knowledge as a research scientist with years of culinary experience to overcome the challenges of eliminating entire food groups from her diet. Gigi looks at nutrition different from most as a result of her professional background as a behavioral neuroscience researcher specializing in chronic inflammatory pain and natural products research. She sees nutrition from the inside out - and answers the question "What do the foods we eat do inside our bodies?" It is this unique, fact-based approach to nutrition, combined with her personal experience living with celiac disease and multiple food allergies that gives Gigi insight into the nutrition of multiple special diets few are able to offer. And now, after five years of sharing her signature "Smart Nutrition Backed by Science" with readers all over the world via GlutenFreeGigi.com and as the Editor-in-Chief of Food Solutions Magazine, Gigi is making her practical, easy-to-understand

strategies, tips and recipes available in one convenient reference, The Gluten-Free Solution: Your Ultimate Guide to Positive Gluten-Free Living. Whether you're newly diagnosed with celiac disease, suffer from another autoimmune disease requiring a gluten-free diet, or are still seeking answers to your health and nutrition issues, Gigi has the fact-based answers you need, and she shares them here with her usual upbeat, inspiring and positive approach so that anyone who desires to do so can easily transform and restore their health with the foods they eat.

Living Allergy Free

In this commonsense book, Dr. Gershwin and Dr. Klingelhofer offer sensible, practical strategies for identifying the substances that cause allergies (allergens), the symptoms they cause, ways exposure to allergens can be avoided or reduced, and ways you can relieve the symptoms. Living Allergy Free also treats some reactions that are commonly assumed to be allergies, but are really sensitivity or irritant reactions, shows how they can be distinguished from true allergies, and tells you what to do about them. If you suffer from allergies-or if you think you do-Living Allergy Free is just what the doctor would order!

An Introduction to Fluid Mechanics

Translation of Uravnenieiia v svobodnoi polugruppe.

Secure Your Network for Free

Seagren shows readers how to secure their network from top to bottom without spending a penny on security software using best of breed open source software including Snort, Nessus, and Ethereal.

The Gluten-Free Solution

The articles collected in this publication have previously been published in eight special issues of the Journal of Biomaterials Science, Polymer Edition, in honour of Dr. Allan S. Hoffman, who is known as a pioneer, a leader and a mentor in the field of biomaterials. The papers from renowned scientists from all parts of the world, representing the state-of-the-art in polymeric biomaterials today, have been rearranged into a logical order of sections, each having a distinct focus. The topics covered are: Surface Modification, Characterization and Properties; Protein Adsorption; Blood Interactions; Cell Interactions; Immobilized Cell Receptor Ligands and Immobilized Cells; Immobilized Biomolecules and Synthetic Derivatives of Biomolecules; New Polymers and Applications; Biodegradable Polymers and Drug Delivery; Water-Soluble Biomolecules,

Sunthetic Polymers, and their Conjugates; Hydrogels.

Equations in Free Semigroups

Free Radicals

As a text for an undergraduate mathematics course for nonmajors, Mathematics and Politics requires no prerequisites in either area while the underlying philosophy involves minimizing algebraic computations and focusing instead on some conceptual aspects of mathematics in the context of important real-world questions in political science. Five major topics are covered including a model of escalation, game theoretic models of international conflict, yes-no voting systems, political power, and social choice. Each topic is discussed in an introductory chapter and revisited in more depth in a later chapter. This new edition has added co-author, Allison Pacelli, and two new chapters on "Fairness" and "More Fairness." The examples and the exercises have been updated and enhanced throughout. Reviews from first edition: This book is well written and has much math of interest. While it is pitched at a non-math audience there is material here that will be new and interesting to the readers -Sigact News For mathematicians, Taylor's book shows how the social sciences make use of mathematical thinking, in the form of axiomatic systems, and offers a chance to teach this kind of thinking to our students. - The College Mathematics Journal The writing is crisp and the sense of excitement about learning mathematics is seductive. The political conflict examples are well thought out and clear. -Michael C. Munger

Automated Solution of Differential Equations by the Finite Element Method

Chloride ingress in reinforced concrete induces corrosion and consequent spilling and structural weakness, and it occurs world-wide and imposes an enormous cost. Yet it can be resisted by using test methods and relevant models for service life prediction.Resistance of Concrete to Chloride Ingress sets out current understanding of chloride transport

Free Energy Transduction and Biochemical Cycle Kinetics

This three-part treatment translates the technical language of research monographs on the theory of free energy transfer in biology, making the subject more accessible to novices. 1989 edition.

The South Beach Diet Gluten Solution Cookbook

Conformational Studies of Organic Free Radicals in Solution by Electron Spin Resonance Spectroscopy

IBM Power Systems 775 for AIX and Linux HPC Solution

Flow Control Methods and Devices in Micrometer Scale Channels, by Shuichi Shoji and Kentaro Kawai. Micromixing Within Microfluidic Devices, by Lorenzo Capretto, Wei Cheng, Martyn Hill and Xunli Zhang. Basic Technologies for Droplet Microfluidics, by Shaojiang Zeng, Xin Liu, Hua Xie and Bingcheng Lin. Electrorheological Fluid and Its Applications in Microfluidics, by Limu Wang, Xiuqing Gong and Weijia Wen. Biosensors in Microfluidic Chips, by Jongmin Noh, Hee Chan Kim and Taek Dong Chung. A Nanomembrane-Based Nucleic Acid Sensing Platform for Portable Diagnostics, by Satyajyoti Senapati, Sagnik Basuray, Zdenek Slouka, Li-Jing Cheng and Hsueh-Chia Chang. Optical Detection Systems on Microfluidic Chips, by Hongwei Gai, Yongjun Li and Edward S. Yeung. Integrated Microfluidic Systems for DNA Analysis, by Samuel K. Njoroge, Hui-Wen Chen, Małgorzata A. Witek and Steven A. Soper. Integrated Multifunctional Microfluidics for Automated Proteome Analyses, by John K. Osiri, Hamed Shadpour, Małgorzata A. Witek and Steven A. Soper. Cells in Microfluidics, by Chi Zhang and Danny van Noort. Microfluidic Platform for the Study of Caenorhabditis elegans,by Weiwei Shi, Hui Wen, Bingcheng Lin and Jianhua Qin.

Raw Food and Gourmet

Dessert and Lunch

This book constitutes the refereed proceedings of the second International Workshop on Mobile Entity Localization and Tracking in GPS-less Environnments, MELT, held in Orlando, Florida, USA, in September 2009 in conjunction with the 11th International Conference on Ubiquitous Computing (Ubicomp 2009). MELT is a forum for the state-of-the-art technologies in mobile localization and tracking and novel applications of location-based services. The research contributions in these proceedings cover significant aspects of localization and tracking of mobile devices that include techniques suitable for smart phones and mobile sensor networks in both outdoor and indoor environments using diverse sensors and radio signals. Novel theoretical methods, algorithmic design and analysis, application development, and experimental studies are presented in 14 papers that were reviewed carefully by the program committee. In addition, three invited papers, with topics on location determination using RF systems, Cramer-Rao-Bound analysis for indoor localization and approaches targeting mobile sensor networks, are also included in the proceedings.

Physiology and Pathophysiology of the Heart

Category theory provides a general conceptual framework that has proved fruitful in subjects as diverse as geometry, topology, theoretical computer science and foundational mathematics. Here is a friendly, easy-to-read textbook that explains the fundamentals at a level suitable for newcomers to the subject. Beginning postgraduate mathematicians will find this book an excellent introduction to all of the basics of category theory. It gives the basic definitions; goes through the various associated gadgetry, such as functors, natural transformations, limits and colimits; and then explains adjunctions. The material is slowly developed using many examples and illustrations to illuminate the concepts explained. Over 200 exercises, with solutions available online, help the reader to access the subject and make the book ideal for self-study. It can also be used as a recommended text for a taught introductory course.

Differential-algebraic Equations

Chloramines are widely used to maintain a disinfectant residual in water distribution systems, but can result in nitrification. This research documents the effectiveness of free chlorine for the control of nitrifying bacteria, evaluates the effect of pipe materials on nitrifying bacteria, and determines how DPBs change as a result of the switch to free chlorine.

An Introduction to Category Theory

Jean-Marc Vanden-Broeck's twenty years of experience contribute to this essential reference work for applied mathematicians and engineers. He demonstrates how gravity-capillary flows, in which the effects of pipe flow, gravity flow, and surface tension combine to produce a singular flow pattern, are utilized in many practical applications.

The Solution Revolution

You've tried everything : the pills, the shakes, the diets, even the surgery, and it's been a losing battle. But permanent weight loss isn't impossible. Not anymore . . . Now dietary expert Laurel Mellin offers a scientifically proven, agony–free, breakthrough program for weight loss that doesn't require deprivation or superhuman willpower. The Diet–Free Solution presents a practical six–step plan that succeeds where other diets fail because it identifies the psychological, physical, and lifestyle causes of weight problems : the powerful mind and body drives that lead to overeating and inactivity d offers the cure for each. You can change your body, and ultimately your whole life ith: The Nurturing Cure: How to become aware of your feelings and meet your own needs The Limits Cure: How to control your actions and set appropriate, realistic expectations The Body Pride Cure: How to turn off negative stereotypes about fat The Good Health Cure: How to become

aware of body health and stay healthy The Eating Cure: How to eat regular meals and maintain a healthy diet The Activity Cure: How to maintain an exercise program and find personal time Until you understand the whole truth about your weight problem, you can't solve it. Whether you're trying to lose those last five pounds, end a compulsive eating problem, or shed more weight than you ever thought you'd carry, let The Diet–Free Solution work for you now and for the rest of your life! The ability to self–nurture and set effective limits is the root of human maturity, and the foundation for emotional, behavioural, and spiritual balance. Fortunately, the skills to self–nurture and set effective limits can be fine–tuned and readers will learn them via a wealth of practical examples, colourful case histories, and scientific findings that are both fascinating and easy to understand. These skills are effective for a wide range of psychological and addictive problems––from alcoholism and other addictions to overeating, overworking, overspending, and perfectionism.

SPE/ANTEC 2000 Proceedings

Lianwei Li's Ph.D. thesis solves a long-standing problem in polymer physics: how does a hyperbranched chain pass through a cylindrical pore smaller than its size under an elongational flow field? The question was asked by the Nobel Laureate, the late Professor de Gennes in the 70s but has never been seriously addressed through real experiments. This thesis outlines how Lianwei Li developed a novel polymerization strategy using a seesaw-type macromonomer to prepare a set of "defect-free" hyperbranched chagins with different overall molar masses and controllable uniform subchain lengths. The author then unearthed how the critical (minimum) flow rate at which a hyperbranched chain can pass through the pore, is dependent on the overall molar mass and the subchain length. The experimental results give a unified description of polymer chains with different topologies passing through a small cylindrical pore, which enables us to separate chains by their topologies instead of their sizes in ultrafiltration. In addition, this research also reveals how the chain structure of amphiphilic hyperbranched block and graft copolymers affect their solution properties, including the establishments of several classic scaling laws that relate the chain size and the intrinsic viscosity to the overall molar mass and the subchain length, respectively. This work has led to numerous publications in high-impact peer-reviewed journals.

Mathematics and Politics

Government Alone Can't Solve Society's Biggest Problems World hunger. Climate change. Crumbling infrastructure. It's clear that in today's era of fiscal constraints and political gridlock, we can no longer turn to government alone to tackle these and other towering social problems. What's required is a new, more collaborative and productive economic system. The Solution Revolution brings hope—revealing just such a burgeoning new economy where players from across the spectrum of business, government, philanthropy, and social enterprise converge to solve big problems and create public value. By erasing public-private sector boundaries, the solution economy is unlocking trillions of dollars in social benefit and

commercial value. Where tough societal problems persist, new problem solvers are crowdfunding, ridesharing, app-developing, or impact-investing to design innovative new solutions for seemingly intractable problems. Providing low-cost health care, fighting poverty, creating renewable energy, and preventing obesity are just a few of the tough challenges that also represent tremendous opportunities for those at the vanguard of this movement. They create markets for social good and trade solutions instead of dollars to fill the gap between what government can provide and what citizens need. So what drives the solution economy? Who are these new players and how are their roles changing? How can we grow the movement? And how can we participate? Deloitte's William D. Eggers and Paul Macmillan answer these questions and more, and they introduce us to the people and organizations driving the revolution—from edgy social enterprises growing at a clip of 15 percent a year, to megafoundations, to Fortune 500 companies delivering social good on the path to profit. Recyclebank, RelayRides, and LivingGoods are just a few of the innovative organizations you'll read about in this book. Government cannot handle alone the huge challenges facing our global society—and it shouldn't. We need a different economic paradigm that can flexibly draw on resources, combine efforts, and create value, while improving the lives of citizens. The Solution Revolution shows the way.

The Solution

Solution of Crack Problems

SIMPLE SOLUTIONS for Planet Earth and SIMPLE SOLUTIONS for Humanity cracked the top ten list in Honolulu. This third publication crystallizes the essence of these topics, linking them with current events and the future of our society. Have you wondered why we don't have a national energy policy, whether global warming is a hoax, how a nation that mostly believes God creating everything in less than 10,001 days became the greatest ever, and how we can best attain peace in our lifetime? If you do, then this is your must read book for the year.

I/EC. Industrial and engineering chemistry

could go on for several pages. Thus the book edited This book emphasizes the fundamental, functional aspects of cardiology. Within the last thirty years, by Sperelakis IS a potent reminder of the almost for the rift between clinical and investigative cardiology gotten fact that cardiology has twO sites, inextrica has widened, because of the overwhelming devel bly related. opment of new clinical procedures, both diagnostic The book deals with subjects in which Dr. Sper and therapeutic. Almost forgotten is the fact that elakis has pioneered: ultrastructure of heart muscle, we owe most of the clinical advances to theoretical electrophysiology, cardiac contractility, and ion ex and experimental observations. I need

not remind change. An extension of these subjects is the chapter the reader of the work of Carrel, who performed the dealing with fundamental topics of the coronary cir first experimental coronary bypass in 1902, or the culation. work of the brothers Curie in 1880, both physicists, This book is indeed a timely reminder of the im who discovered piezoelectricity, the keystone in ech portance of the fundamental aspects of cardiology. ogradiography; of the works of Langley, who intro Emphasis on clinical aspects of cardiology alone will duced the receptors concept; of Ahlquist in 1946, result in a sterile and unproductive future for a field who first differentiated between alpha and beta re that has made such stunning advances during the ceptors; of Fleckenstein, a physiologist who pi last thirty years to the benefit of millions of people.

Mobile Entity Localization and Tracking in GPS-less Environnments

A biosensor is a device in which a bioactive layer lies in direct contact with a transducer whose responses to change in the bioactive layer generate eloctronic signals for interpretation. The bioactive layer may consist of membrane-bound enzymes, anti-bodies, or receptors. The potential of this blend of electronics and biotechnology includes the direct assay of clinically important substrates (e.g. blood glucose) and of substances too unstable for storage or whose concentrations fluctuate rapidly. Written by the leading researchers in the field, this book reflects the most current developments in successfully constructing a biosensor. Major applications are in the fields of pharmacology, molecular biology, virology and electronics.

Biosensors and Their Applications

This book is a tutorial written by researchers and developers behind the FEniCS Project and explores an advanced, expressive approach to the development of mathematical software. The presentation spans mathematical background, software design and the use of FEniCS in applications. Theoretical aspects are complemented with computer code which is available as free/open source software. The book begins with a special introductory tutorial for beginners. Following are chapters in Part I addressing fundamental aspects of the approach to automating the creation of finite element solvers. Chapters in Part II address the design and implementation of the FEnicS software. Chapters in Part III present the application of FEniCS to a wide range of applications, including fluid flow, solid mechanics, electromagnetics and geophysics.

An Introduction to the Physical Properties of Large Molecules in Solution

The Sierras Weight-Loss Solution for Teens and Kids

With The South Beach Diet, Dr. Arthur Agatston ended the low carb versus low fat debate and educated the country about healthy carbs and fats. In The South Beach Diet Gluten Solution, he cleared up the confusion surrounding gluten and helped people find their own gluten threshold (what he calls becoming gluten aware). Now he clarifies another matter: Gluten-free eating does not mean you have to sacrifice flavor or good nutrition. The South Beach Diet Gluten Solution Cookbook makes creative use of gluten-free ingredients in 175 recipes that will please even the most discerning palates. Mouth-watering dishes like Bacon and Pecan Breakfast Biscuits, Vegetable Quiche with Spinach Crust, Johnnycake Chicken Sandwiches, Shrimp and Chicken Pad Thai, Summer Berry Tart, and Cashew-Butter Cookies will more than satisfy the heartiest (and healthiest) of appetites. And with more than half of the recipes taking 30 minutes or less from start to finish, this book is perfect for the busiest of cooks. Unlike the recipes found in many gluten-free cookbooks, those in The South Beach Diet Gluten Solution Cookbook are free of highly refined flours, sugars, and artery-clogging saturated fats—but are still packed with plenty of flavorful ingredients. Even readers who aren't gluten-free 100 percent of the time will enjoy reaping the health rewards of these diet-friendly and delicious dishes.

Being The Solution

This IBM® Redbooks® publication contains information about the IBM Power SystemsTM 775 Supercomputer solution for AIX® and Linux HPC customers. This publication provides details about how to plan, configure, maintain, and run HPC workloads in this environment. This IBM Redbooks document is targeted to current and future users of the IBM Power Systems 775 Supercomputer (consultants, IT architects, support staff, and IT specialists) responsible for delivering and implementing IBM Power Systems 775 clustering solutions for their enterprise high-performance computing applications.

Gravity-Capillary Free-Surface Flows

Featuring the youth-building cellulite diet Blast cellulite with a powerful, effective three-step program. Every woman dreads it. But most women---even thin women---have it. Massage systems, topical creams, and going off caffeine won't budge cellulite, and dieting usually doesn't reduce it either. At last, The Cellulite Solution contains a simple three-pronged program that actually works to reduce dimpling. Drawing on thirty-five years of clinical experience, Dr. Murad has developed a cellulite-slaying method that is effective for woman of any age, no matter how severe their cellulite problem is. A triad of nutritional direction, lifestyle changes, and topical treatments combines to both prevent and get rid of cellulite. Follow Dr. Murad's program and you'll see "cottage cheese thighs" reduced and you'll notice smoother skin all over as your cells are replenished and plumped by water. Dr. Murad explains his complete water principle and why cell hydration-which is essential to healthy and young-looking skin-can't come from drinking water alone. As a bonus, Dr. Murad's program also reduces stretch marks! Complete with a detailed eating plan and specific recommendations for supplements as well as

external skin care, The Cellulite Solution is the magic formula you've been looking for to banish the most stubborn beauty problem women face today.

On Systems of Equations Over Free Partially Commutative Groups

Free Boundary Problems Involving Solids

This is the first comprehensive textbook that provides a systematic and detailed analysis of initial and boundary value problems for differential-algebraic equations. The analysis is developed from the theory of linear constant coefficient systems via linear variable coefficient systems to general nonlinear systems. Further sections on control problems, generalized inverses of differential algebraic operators, generalized solutions, and differential equations on manifolds complement the theoretical treatment of initial value problems.

Introduction to the Thermodynamics of Materials, Fifth Edition

Using an analogue of Makanin-Razborov diagrams, the authors give an effective description of the solution set of systems of equations over a partially commutative group (right-angled Artin group) $\mathbb{G}$. Equivalently, they give a parametrisation of $\mathrm{Hom}(G, \mathbb{G})$, where G is a finitely generated group.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION