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This second edition of Fundamentals of Open Channel Flow focuses on theory followed by clear, fully-solved examples, and practical computational tools such as spreadsheets and industry standard software. It builds on a foundation in fluid mechanics and offers the basics of a first course in open channel flow for senior undergraduates or graduate students: energy, momentum, friction, and gradually varied flow, both qualitative and quantitative. This edition provides more coverage of design applications, including culvert design, a wider range of channel shapes, and an update of the US Corps of Engineers' HEC-RAS program. It shows how a few simple equations can solve a range of basic problems. The energy-depth and momentum-depth relationships are examined graphically and the book's website offers unique animations showing actual flow dynamics of some transient flow problems, as well as solutions to end-of-chapter problems and PowerPoint slides for instructors. This Commentary draws on the applied use of international human rights law under the African System of Human Rights to provide protection to those who need it most- refugees. CD-ROM contains: Excel workbooks for examples and problems -- Software tool for thermodynamic properties. A solutions manual to accompany An Introduction to Discrete Mathematical Modeling with Microsoft® Office Excel® With a focus on mathematical models based on real and current data, Models for Life: An Introduction to Discrete Mathematical Modeling with Microsoft® Office Excel® guides readers in the solution of relevant, practical problems by introducing both mathematical and Excel techniques. The book begins with a step-by-step introduction to discrete dynamical systems, which are mathematical models that describe how a quantity changes from one point in time to the next. Readers are taken through the process, language, and notation required for the construction of such models as well as their implementation in Excel. The book examines single-compartment models in contexts such as population growth, personal finance, and body weight and provides an introduction to more advanced, multi-compartment models via applications in many areas, including military combat, infectious disease epidemics, and ranking methods. Models for Life: An Introduction to Discrete Mathematical Modeling with Microsoft® Office Excel® also features: A modular organization that, after the first chapter, allows readers to explore chapters in any order Numerous practical examples and exercises that enable readers to personalize the presented models by using their own data Carefully selected real-world applications that motivate the mathematical material such as predicting blood alcohol concentration, ranking sports teams, and tracking credit card debt References throughout the book to disciplinary research on which the presented models and model parameters are based in order to provide authenticity and resources for further study Relevant Excel concepts with step-by-step guidance, including screenshots to help readers better understand the presented material Both mathematical and graphical techniques for understanding concepts such as equilibrium values, fixed points, disease endemicity, maximum sustainable yield, and a drug's therapeutic window A companion website that includes the referenced Excel spreadsheets, select solutions to homework problems, and an instructor's manual with solutions to all homework problems, project ideas, and a test bank International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution, CMES, which is the unique national-level academic society of Industrial Engineering. The conference is held annually as the major event in this area. Being the largest and the most authoritative international academic conference held in China, it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering and Management area to exchange their research results. Many experts in various fields from China and foreign countries gather together in the conference to review, exchange,

summarize and promote their achievements in Industrial Engineering and Engineering Management fields. Some experts pay special attention to the current situation of the related techniques application in China as well as their future prospect, such as Industry 4.0, Green Product Design, Quality Control and Management, Supply Chain and logistics Management to cater for the purpose of low-carbon, energy-saving and emission-reduction and so on. They also come up with their assumption and outlook about the related techniques' development. The proceedings will offer theatrical methods and technique application cases for experts from college and university, research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique's application in China. As all the papers are feathered by higher level of academic and application value, they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style. This textbook treats graph colouring as an algorithmic problem, with a strong emphasis on practical applications. The author describes and analyses some of the best-known algorithms for colouring graphs, focusing on whether these heuristics can provide optimal solutions in some cases; how they perform on graphs where the chromatic number is unknown; and whether they can produce better solutions than other algorithms for certain types of graphs, and why. The introductory chapters explain graph colouring, complexity theory, bounds and constructive algorithms. The author then shows how advanced, graph colouring techniques can be applied to classic real-world operational research problems such as designing seating plans, sports scheduling, and university timetabling. He includes many examples, suggestions for further reading, and historical notes, and the book is supplemented by an online suite of downloadable code. The book is of value to researchers, graduate students, and practitioners in the areas of operations research, theoretical computer science, optimization, and computational intelligence. The reader should have elementary knowledge of sets, matrices, and enumerative combinatorics. "This book investigates the creation and implementation of enterprise information systems, covering a wide array of topics such as flow-shop scheduling, information systems outsourcing, ERP systems utilization, Dietz transaction methodology, and advanced planning systems"--Provided by publisher. This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications. It is the first book to cover in detail the field of optimization in telecommunications. Recent optimization developments that are frequently applied to telecommunications are covered. The spectrum of topics covered includes planning and design of telecommunication networks, routing, network protection, grooming, restoration, wireless communications, network location and assignment problems, Internet protocol, World Wide Web, and stochastic issues in telecommunications. The book’s objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization. A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite-dimensional systems. The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems. The first part of the book is devoted to regulation of linear systems, beginning with the mathematical setup, general theory, and solution strategy for regulation problems with bounded input and output operators. The book then considers the more interesting case of unbounded control and sensing. Mathematically, this case is more complicated and general theorems in this area have become available only recently. The authors also provide a collection of interesting linear regulation examples from physics and engineering. The second part focuses on regulation for nonlinear systems. It begins with a discussion of theoretical results, characterizing solvability of nonlinear regulator problems with bounded input and output operators. The book progresses to problems for which the geometric theory based on center manifolds does not directly apply. The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems. The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering. At publication, The Control Handbook immediately became the definitive resource that engineers working with modern control systems required. Among its many accolades, that first edition was cited by the AAP as the Best Engineering Handbook of 1996. Now, 15 years later, William Levine has once again compiled the most comprehensive and authoritative resource on control engineering. He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields. Now expanded from one to three volumes, The Control Handbook, Second Edition brilliantly organizes cutting-edge contributions from more than 200 leading experts representing every corner of the globe. They cover everything from basic closed-loop systems to multi-agent adaptive systems and from the control of electric motors to the control of complex networks. Progressively organized, the three volume set includes: Control System Fundamentals Control System Applications Control System Advanced Methods Any practicing engineer, student, or researcher working in fields as diverse as electronics, aeronautics, or biomedicine will find this handbook to be a time-saving resource filled with invaluable formulas, models, methods, and innovative thinking. In fact, any physicist, biologist, mathematician, or researcher in any number of fields developing or improving products and systems will find the answers and ideas they need. As with the first edition, the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances. The refereed proceedings of the 15th International Conference on Computer Aided Verification, CAV 2003, held in Boulder, CO, USA in July 2003. The 32 revised full papers and 9 tool papers presented were carefully reviewed and selected from a total of 102 submissions. The papers are organized in topical sections on bounded model checking; symbolic model checking; games, trees, and counters; tools; abstraction; dense time; infinite state systems; applications; theorem proving; automata-based verification; invariants; and explicit model checking. This book, A Mosaic of Computational Topics: from Classical to Novel, is a collection of papers published to honor Professor Jetty Kleijn on the occasion of her 65th birthday. The scope and reach of her research is truly broad. She has made significant and lasting contributions in several research areas, both through the solving of challenging problems and in her pioneering of new research directions. She has published influential papers contributing to the foundations of computer science, in particular, in the area of formal languages and automata theory; to concurrency theory, in particular, Petri nets; and to natural computing, in particular bio-inspired computing and the computational modeling of bio-processes. A significant part of Professor Kleijn’s research portfolio is interdisciplinary, including her work on the Petri net modeling of biological processes and the development of novel models of information processing in bio-systems such as reaction systems. She is also passionately engaged in promoting the involvement of women in computer science. Jetty and her work are well-recognized by the scientific community, a fact demonstrated by the enthusiastic response to the invitation to contribute to this book, and the 14 carefully refereed papers collected together here explore a number of research topics that are either directly or indirectly related to research directions pursued by Jetty Kleijn in the course of her career. Reinforce your understanding of nursing concepts and skills, and apply that knowledge to nursing practice! Corresponding to the chapters in deWit’s Fundamental Concepts and Skills for Nursing, 4th Edition, this study guide provides practice exercises, review questions, and application activities to help you gain a solid understanding of the principles and skills you’ll need to succeed in your nursing classes and in your career. Steps to Better Communication sections in each chapter include a vocabulary building glossary, NCLEX exam-style completion exercises, grammar and pronunciation exercises, and cultural issues. Review Questions for the NCLEX-PN Examination include multiple-choice and alternate-format questions related to content in the textbook. Clinical Situations ask you to apply key concepts to nursing practice. Setting Priorities questions ask you to rank tasks in order of importance — prioritization is one of the most important skills in nursing. Application of the Nursing Process questions help you make the connection between the nursing process and real-world patient care. Text page references make it easy to locate answers in the textbook. To the Student instructions provide study hints to ESL and non-ESL students. Updated content reflects current issues in nursing, such as QSEN standards. The organizers of the 12th

International Conference on Multiple Cri teria Decision Making (MCDM) held June 19-23, 1995 in Hagen received the second time the opportunity to prepare an international conference on MCDM in Germany; the first opportunity has been the 3rd International Conference on MCDM in Konigswinter, 1979. Quite a time ellapsed since then and therefore it might be interesting to compare some indicators of the development of the International Society on MCDM, which has been founded in Konigswinter. Stanley Zionts has been elected first president and all 44 participants of that Conference became founding members. Today our Society has over 1200 members and its own Journal (MCDM World Scan). In Hagen, 1996, we had 152 participants from 34 countries. It is interesting to mention that also other Groups established their organi zation, like the European Working Group on Multiple Criteria Decision Aid, the German Working Group on Decision Theory and Applications, the Multi Objective Programming and Goal Programming Group, ESIGMA, and some others. It is also interesting to note that the intersection of members of all these Groups and Societies is not empty and there is quite a cooperation among them. The usability and design in technological systems is imperative due to their abundance in numerous professional industries. Computer interfaces have seen significant advancement in their design and development as they have become an integral part of today’s society. As humans continue to interact with technology on a regular basis, it is essential for professionals, professors, and students to keep pace with innovative research on interface design and the various applications interfaces have in professional fields. Interactivity and the Future of the Human-Computer Interface is a collection of innovative research on the development and application of interfaces in today’s modern society and the generational implications for design of human and technology interaction. While highlighting topics including digital gaming, augmented reality, and e-learning, this book is ideally designed for educators, developers, web designers, researchers, technology specialists, scientists, and students seeking current research on modern advancements and applications in human-computer interaction. Linearity plays a critical role in the study of elementary differential equations; linear differential equations, especially systems thereof, demonstrate a fundamental application of linear algebra. In Differential Equations with Linear Algebra, we explore this interplay between linear algebra and differential equations and examine introductory and important ideas in each, usually through the lens of important problems that involve differential equations. Written at a sophomore level, the text is accessible to students who have completed multivariable calculus. With a systems-first approach, the book is appropriate for courses for majors in mathematics, science, and engineering that study systems of differential equations. Because of its emphasis on linearity, the text opens with a full chapter devoted to essential ideas in linear algebra. Motivated by future problems in systems of differential equations, the chapter on linear algebra introduces such key ideas as systems of algebraic equations, linear combinations, the eigenvalue problem, and bases and dimension of vector spaces. This chapter enables students to quickly learn enough linear algebra to appreciate the structure of solutions to linear differential equations and systems thereof in subsequent study and to apply these ideas regularly. The book offers an example-driven approach, beginning each chapter with one or two motivating problems that are applied in nature. The following chapter develops the mathematics necessary to solve these problems and explores related topics further. Even in more theoretical developments, we use an example-first style to build intuition and understanding before stating or proving general results. Over 100 figures provide visual demonstration of key ideas; the use of the computer algebra system Maple and Microsoft Excel are presented in detail throughout to provide further perspective and support students' use of technology in solving problems. Each chapter closes with several substantial projects for further study, many of which are based in applications. Errata sheet available at: www.oup.com/us/companion.websites/9780195385861/pdf/errata.pdf For Introductory Computer courses in Microsoft Office 2003 or courses in Computer Concepts with a lab component for Microsoft Office 2003 applications. Master the How and Why of Office 2003! Students master the "How and Why" of performing tasks in Office and gain a greater understanding of how to use the individual applications together to solve business problems. Now with a full-color design, the new Fourth Edition of Zill's Advanced Engineering Mathematics provides an in-depth overview of the many mathematical topics necessary for students planning a career in engineering or the sciences. A key strength of this text is Zill's emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Fourth Edition is comprehensive, yet flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. Numerous new projects contributed by esteemed mathematicians have been added. New modern applications and engaging projects makes Zill's classic text a must-have text and resource for Engineering Math students! The essays and memoirs collected in Seek! trace Rudy Rucker's trajectory through the final decade of the second millennium. His topics include artificial life, chaos, the big bang, Pieter Brueghel, the church of the subgenius, live sex, mathematics, science fiction, and TV evangelism. A computer scientist and programmer, Rucker is an articulate, engaging guide to the world on either side of the computer screen. This book constitutes the proceedings of the 13th International Computer Science Symposium in Russia, CSR 2018, held in Moscow, Russia, in May 2018. The 24 full papers presented together with 7 invited lectures were carefully reviewed and selected from 42 submissions. The papers cover a wide range of topics such as algorithms and data structures; combinatorial optimization; constraint solving; computational complexity; cryptography; combinatorics in computer science; formal languages and automata; algorithms for concurrent and distributed systems; networks; and proof theory and applications of logic to computer science. Understanding Sustainable Architecture is a review of the assumptions, beliefs, goals and bodies of knowledge that underlie the endeavour to design (more) sustainable buildings and other built developments. Much of the available advice and rhetoric about sustainable architecture begins from positions where important ethical, cultural and conceptual issues are simply assumed. If sustainable architecture is to be a truly meaningful pursuit then it must be grounded in a coherent theoretical framework. This book sets out to provide that framework. Through a series of self-reflective questions for designers, the authors argue the ultimate importance of reasoned argument in ecological, social and built contexts, including clarity in the problem framing and linking this framing to demonstrably effective actions. Sustainable architecture, then, is seen as a revised conceptualisation of architecture in response to a myriad of contemporary concerns about the effects of human activity. The aim of this book is to be transformative by promoting understanding and discussion of commonly ignored assumptions behind the search for a more environmentally sustainable approach to development. It is argued that design decisions must be based on both an ethical position and a coherent understanding of the objectives and systems involved. The actions of individual designers and appropriate broader policy settings both follow from this understanding. WHOSE FAULT IS IT WHEN YOU ARE SURROUNDED BY A-HOLES? HOW TO HANDLE THEM, BY FOLLOWING THESE EASY DIRECTIONS Whether at work or in your personal life, conflicts are verywhere! Conflict could arise from all manner of things, and the biggest challenge that most people face is dealing with the conflicts and petty fights constructively. Conflict brings out negative feelings and yet it's necessary to build intimacy in relationships. How then do you transform such a negative thing into a positive one? Your feelings and attitude towards conflict are important, as well as how you speak your truth to a "difficult" person while still remaining fair. It is therefore important to learn assertiveness and how to fight fair to avoid damaging the relationship. It is important to establish firm boundaries! You will learn the following: INTRODUCTION WHAT ARE BOUNDARIES? KINDS OF BOUNDARIES INDICATORS OF UNHEALTHY BOUNDARIES SETTING BOUNDARIES IMPLEMENT YOUR BOUNDARIES SELF-RESPECT RESPECT ANOTHER PERSON'S BODY AS WELL AS YOUR OWN. DON'T TAKE WITHOUT ASKING PROTECT YOUR MOST PRECIOUS RESOURCE: YOU DON'T LOSE YOURSELF IN A RELATIONSHIP IMPLEMENTING BOUNDARIES EMOTIONAL LIMITATIONS SHIELD YOUR FEELINGS FROM OTHER PEOPLE. TO SET A LIMIT WITH AN UPSET PERSON SPEAKING YOUR TRUTH IN DIFFICULT SITUATIONS CONFRONTATION DO A SELF-CHECK CHOOSE YOUR BATTLES TAKE A PAUSE CLEARLY STATE THE ISSUES THAT UPSET YOU STICK TO THE FACTS MINIMIZE YOUR INTERACTIONS SEEK MEDIATION CHANGE YOUR MINDSET DON'T BE EASILY OFFENDED EXAMINE YOUR OWN BEHAVIOR BE AWARE OF HOW YOU

PERCEIVE OTHERS WHEN YOU ARE THE DIFFICULT PERSON YOUR SELF-WORTH IS LOW PEOPLE LEAVE YOU OUT IF YOU ARE ALWAYS COMPLAINING YOU KEEP BLOWING UP YOU FEEL LIKE EVERYONE IS AGAINST YOU YOUR PERFORMANCE REVIEWS REVEAL THAT YOU ARE DIFFICULT RESOLVING CONFLICT THAT YOU CAUSED CONFIRM WHAT YOU REALLY WANT UNDERSTAND WHAT ACTUALLY HAPPENED HANDLE YOUR FEELINGS FIRST GET INTO THE OTHER PERSON'S SHOES MAKE A LIST OF REASONS WHY YOU NEED TO MAKE AMENDS MAKE AMENDS WHEN YOUR HEART IS CLEAR DECIDE HOW YOU'LL MAKE UP FOR THE WRONG THAT YOU DID DETERMINE WHAT YOU'LL SAY APOLOGIZE IN PERSON PRIORITIZE THE APOLOGY MAKE IT QUICK AND SIMPLE ALLOW THE OTHER PERSON TO VENT PROVIDE RESTITUTION AVOID FUTURE MISTAKES WHAT YOU CAN CONTROL IN CONFLICT RESOLVING CONFLICT AT THE WORKPLACE WHEN TWO PEOPLE COME TO YOU FOR HELP MEDIATION. FIGHTING FAIR IN YOUR RELATIONSHIPS TEACHING CHILDREN CONFLICT RESOLUTION TEACHING STYLES MAKING GOOD BEHAVIOUR STICK WHEN TO GET HELP WHY PEOPLE MISUSE YOU YOU FEEL GUILTY ABOUT DISPUTES YOU ARE A PEOPLE PLEASER LEARNING TO BE ASSERTIVE GUIDELINES FOR BEING ASSERTIVE HOW TO LET A DIFFICULT PERSON KNOW THAT THEIR BEHAVIOUR IS WRONG IF THEY DON'T BELIEVE IT GET YOUR TEAM TO FOLLOW YOUR LEAD HOW TO GAIN RESPECT FROM DIFFICULT PEOPLE Get your copy today! An accessible yet rigorous introduction to partial differential equations This textbook provides beginning graduate students and advanced undergraduates with an accessible introduction to the rich subject of partial differential equations (PDEs). It presents a rigorous and clear explanation of the more elementary theoretical aspects of PDEs, while also drawing connections to deeper analysis and applications. The book serves as a needed bridge between basic undergraduate texts and more advanced books that require a significant background in functional analysis. Topics include first order equations and the method of characteristics, second order linear equations, wave and heat equations, Laplace and Poisson equations, and separation of variables. The book also covers fundamental solutions, Green's functions and distributions, beginning functional analysis applied to elliptic PDEs, traveling wave solutions of selected parabolic PDEs, and scalar conservation laws and systems of hyperbolic PDEs. Provides an accessible yet rigorous introduction to partial differential equations Draws connections to advanced topics in analysis Covers applications to continuum mechanics An electronic solutions manual is available only to professors An online illustration package is available to professors ' Written by the founders of the new and expanding field of numerical algebraic geometry, this is the first book that uses an algebraic-geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets. The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets. Contents:Background:Polynomial SystemsHomotopy ContinuationProjective SpacesGenericity and Probability OnePolynomials of One VariableOther MethodsIsolated Solutions:Coefficient-Parameter HomotopyPolynomial StructuresCase StudiesEndpoint EstimationChecking Results and Other Implementation TipsPositive Dimensional Solutions:Basic Algebraic GeometryBasic Numerical Algebraic GeometryA Cascade Algorithm for Witness SupersetsThe Numerical Irreducible DecompositionThe Intersection of Algebraic SetsAppendices:Algebraic GeometrySoftware for Polynomial ContinuationHomLab User's Guide Readership: Graduate students and researchers in applied mathematics and mechanical engineering. Keywords:Polynomial Systems;Numerical Methods;Homotopy Methods;Mechanical Engineering;Numerical Algebraic Geometry;Kinematics;RoboticsKey Features:Useful introduction to the field for graduate students and researchers in related areasIncludes exercises suitable for classroom use and self-studyIncludes Matlab software to illustrate the methodIncludes many graphical illustrationsIncludes a detailed summary of useful results from algebraic geometryReviews:"The text is written in a very smooth and intelligent form, yielding a readable book whose contents are accessible to a wide class of readers, even to undergraduate students, provided that they accept that some delicate points of some of the proofs could be omitted. Its readability and fast access to the core of the book makes it recommendable as a pleasant read."Mathematical Reviews "This is an excellent book on numerical solutions of polynomials systems for engineers, scientists and numerical analysts. As pioneers of the field of numerical algebraic geometry, the authors have provided a comprehensive summary of ideas, methods, problems of numerical algebraic geometry and applications to solving polynomial systems. Through the book readers will experience the authors' original ideas, contributions and their techniques in handling practical problems ... Many interesting examples from engineering and science have been used throughout the book. Also the exercises are well designed in line with the content, along with the algorithms, sample programs in Matlab and author's own software 'HOMLAB' for polynomial continuation. This is a remarkable book that I recommend to engineers, scientists, researchers, professionals and students, and particularly numerical analysts who will benefit from the rapid development of numerical algebraic geometry."Zentralblatt MATH ' Over the last seven decades, since the formation of the State of Israel, there has been no shortage of Jews and Arabs desiring peace in Israel-Palestine (the Holy Land). Most peacemaking attempts failed because the parties did not see peace as a win-win deal. The prevailing mantra in this conflict is win-lose or no deal. Today, the Palestinians are not willing to make a deal with the Israeli Jews because they perceive that a deal with the Israeli Jews means the Palestinians will lose. Also, the Israelis are not willing to make a deal with the Palestinian Arabs because they perceive that a deal with the Palestinian Arabs means the Israelis will lose. There are also other geopolitical factors affecting this conflict. This conflict is gradually shifting toward a battle fueled by people relying on religious texts to prolong the struggle. Written in a conversational tone, this classroom-tested text introduces the fundamentals of linear programming and game theory, showing readers how to apply serious mathematics to practical real-life questions by modelling linear optimization problems and strategic games. The treatment of linear programming includes two distinct graphical methods. The game theory chapters include a novel proof of the minimax theorem for 2x2 zero-sum games. In addition to zero-sum games, the text presents variable-sum games, ordinal games, and n-player games as the natural result of relaxing or modifying the assumptions of zero-sum games. All concepts and techniques are derived from motivating examples, building in complexity, which encourages students to think creatively and leads them to understand how the mathematics is applied. With no prerequisite besides high school algebra, the text will be useful to motivated high school students and undergraduates studying business, economics, mathematics, and the social sciences. The third edition of this handbook is designed to provide a broad coverage of the concepts, implementations, and applications in metaheuristics. The book's chapters serve as stand-alone presentations giving both the necessary underpinnings as well as practical guides for implementation. The nature of metaheuristics invites an analyst to modify basic methods in response to problem characteristics, past experiences, and personal preferences, and the chapters in this handbook are designed to facilitate this process as well. This new edition has been fully revised and features new chapters on swarm intelligence and automated design of metaheuristics from flexible algorithm frameworks. The authors who have contributed to this volume represent leading figures from the metaheuristic community and are responsible for pioneering contributions to the fields they write about. Their collective work has significantly enriched the field of optimization in general and combinatorial optimization in particular.Metaheuristics are solution methods that orchestrate an interaction between local improvement procedures and higher level strategies to create a process capable of escaping from local optima and performing a robust search of a solution space. In addition, many new and exciting developments and extensions have been observed in the last few years. Hybrids of metaheuristics with other optimization techniques, like branch-and-bound, mathematical programming or constraint programming are also increasingly popular. On the front of applications, metaheuristics are now used to find high-quality solutions to an ever-growing number of complex, ill-defined real-world problems, in particular combinatorial ones. This handbook should continue to be a great reference for researchers, graduate students, as well as practitioners interested in metaheuristics. This book covers recent advances in simultaneous engineering and contemporary issues related to the development and implementation of

successful systems. The scope of material includes recent research related to simultaneous engineering problem-solving architectures, organizational issues, tools and techniques of simultaneous engineering, design methods, and application of artificial intelligence and numeric tools. This book is devoted to impulsive differential equations with a small parameter. It consists of three chapters. Chapter One serves as an introduction. In Chapter Two, regularly perturbed impulsive differential equations are considered. Modifications of the method of small parameter, the averaging method, and the method of integral manifolds are proposed. In Chapter Three, singularly perturbed differential equations are considered. A modification of the method of boundary functions is proposed, and asymptotic expansions along the powers of the small parameters of the solutions of the initial value problem, the periodic problem, and some boundary value problems are found. Numerous nonstandard applications to the theory of optimal control are made. The application of some other methods to impulsive singularly perturbed equations is illustrated, such as the numerical-analytical method for finding periodic solutions, the method of differential inequalities and the averaging method.The book is written clearly, strictly, and understandably. It is intended for mathematicians, physicists, chemists, biologists and economists, as well as for senior students of these specialities. Struggling with the intricacies of Solution-Focused theory, skills or practice? Wanting to learn more about providing brief, practically-based solution-focused interventions across many therapeutic settings? As part of the popular Brief Therapies Series, this long awaited third edition will tell you all you need to know about Solution-Focused Therapy (SFT) and more! This popular introduction takes you step-by-step through the counselling process, providing insight into how to structure and manage your therapeutic work in ways that are grounded in Solution-Focused principles. This book includes: - a detailed introduction to the theory and practice of 'brief' therapy - a discussion of the foundations of SFT - exercises to use with clients and/or trainees - brand new case examples relating theory directly to practice - an insightful reflection on the journey of the practitioner From leading Solution-Focused expert Bill O'Connell, this book will not only provide practical guidelines and theoretical background for the beginner but support and inspiration for the more experienced. Bill O'Connell is Director of Training for Focus on Solutions Limited in Birmingham. He was previously Head of the Counselling Department at Westhill College of Higher Education, Birmingham, and is co-editor of Handbook of Solution-Focused Therapy (SAGE, 2003). This volume consists of papers presented at the Fourth International Workshop on Computer-Aided Scheduling of Public Transport, which was held in Hamburg from 28th to 31st July 1987. The first of this series of Workshops was held in Chicago in 1975. Papers presented then tended to look forward to what might be done in the future application of computers to problems in transit scheduling. No presentations described systems which had been implemented and were being used on a regular basis, although a few papers discussed apparently successful once-off applications in both bus scheduling and bus crew scheduling (or run-cutting). However, within a few months of the end of that first workshop some systems had been implemented, both in Europe and in North America. By the time of the second Workshop, in Leeds in 1980, several systems were in regular use. Most of the crew scheduling implementations were based on heuristic methods (e.g., RUCUS), although mathematically based methods were being used in Quebec City and in Hamburg, and several papers described further mathematical methods in the course of development. A wide variety of bus scheduling approaches was reported, many of them being in regular use.