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Proceedings of the 9th IFToMM International Conference on Rotor Dynamics Vector Mechanics for Engineers Engineering Mechanics Neurodynamics - Proceedings Of The 9th Summer Workshop SELF-HELP TO ICSE CANDID PHYSICS 9 (SOLUTIONS OF EVERGREEN PUB.) FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019 Vector Mechanics for Engineers Reference Catalogue of Current Literature Hybrid Systems: Computation and Control Correlated Electron Systems Tetrahedral Finite-volume Solutions to the Navier-Stokes Equations on Complex Configurations 9th International Munich Chassis Symposium 2018 Innovative Methods for Numerical Solutions of Partial Differential Equations Proceedings of the 9th fib International PhD Symposium in Civil Engineering : Karlsruhe Institute of Technology (KIT), 22 - 25 July 2012, Karlsruhe, Germany Numerical Methods in Geotechnical Engineering IX Numerical Methods in Geotechnical Engineering IX, Volume 2 Multibody Dynamics 2019 Surface Modeling, Grid Generation, and Related Issues in Computational Fluid Dynamic (CFD) Solutions General Relativity And Gravitational Physics - Proceedings Of The 9th Italian Conference Difference Equations and Discrete Dynamical Systems Proceedings of the 9th Symposium on Ultrasonic Electronics Modeling and Control of Economic Systems 2001 Research Methods and Solutions to Current Transport Problems 16th European Symposium on Computer Aided Process Engineering and 9th International Symposium on Process Systems Engineering Applied Mechanics Reviews Aeronautical Engineering Encyclopedia of Optimization 9th Congress on Electronic Structure: Principles and Applications (ESPA 2014) Proceedings of the 9th International Symposium on Foundations of Quantum Mechanics in the Light of New Technology Environmental Vibrations and Transportation Geodynamics Numerical Methods in Geotechnical Engineering IX, Volume 1 Modeling and Analysis of Dynamic Systems Mechanics of Fluids Solutions Manual Structural Dynamics in Industry Engineering Mechanics 9th International Symposium on High-Temperature Metallurgical Processing Feedback Control of Dynamic Systems Structural Dynamics Ultrafast Phenomena IX Systems Engineering and Organizational Assessment Solutions Ensuring Sustainability within Telemedicine Context

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This book is the proceedings of the 9th International Symposium on Foundations of Quantum Mechanics in the Light of New Technology (ISQM?TOKYO'08) which aims to link the recent advances in technology with fundamental problems in quantum mechanics. It also discusses fundamental problems and issues in quantum physics and places a special emphasis on ?Quantum Coherence and Decoherence?.The proceedings included a special lecture by Prof C N Yang, ?Pseudopotential Method in Cold Atom Research?, and 75 refereed papers covering the wide range of quantum physics: cold atoms and molecules; spin-Hall effect and anomalous Hall effect; magnetic domain wall dynamics and spin-related phenomena; Dirac fermions in condensed matter; quantum dot systems; entanglement and quantum information processing, qubit manipulations; mechanical properties of confined geometry; precise measurements; novel properties of nano-systems; and fundamental problems in quantum physics.The book will not only serve as a good reference for experts on quantum coherence and decoherence, but also as an introduction for newcomers to this field. Since their publication nearly 40 years ago, Beer and Johnston's Vector Mechanics for Engineers books have set the standard for presenting statics and dynamics to beginning engineering students. The New Media Versions of these classic books combine the power of cutting-edge software and multimedia with Beer and Johnston's unsurpassed text coverage. The package is also enhanced by a new problems supplement. For more details about the new media and problems supplement package components, see the New to this Edition section below. By forming the link between the road surface and the vehicle, the chassis plays a key role in enhancing vehicle dynamics and ride comfort. With its control systems, it provides the basis for the further development of driver assistance systems which support the driver in the task ofdriving the vehicle. This applies to an even greater extent to autonomous vehicles. Electromechanical steering and steerby-wire systems are one solution available. At the sametime, the brake system as a safety component needs to be developed in such a way that it fulfills the requirements of powertrain hybridization and electrification. Engineering Mechanics: Dynamics provides a solid foundation of mechanics principles and helps students develop their problem-solving skills with an extensive variety

of engaging problems related to engineering design. More than 50% of the homework problems are new, and there are also a number of new sample problems. To help students build necessary visualization and problem-solving skills, this product strongly emphasizes drawing free–body diagrams, the most important skill needed to solve mechanics problems. This volume contains papers presented at the Ninth International Conference on Ultrafast Phenomena held at Dana Point, CA, USA, from May 2 to 6, 1994. The biannual Ultrafast Phenomena Conferences provide a forum for discussion of the latest advances in ultrafast optics and applications in science and engineering. The vitality and excitement of the various disciplines sharing common interest in ultrafast phenomena were well represented at the meeting by the 438 participants from 18 countries, including 98 students. Cross-fertilization of ultrafast concepts and techniques among the various scientific and engineering disciplines continues to be the primary driving force behind this successful meeting. Progress was reported in the technology of generating ultrafast pulses, includ ing extensions in pulse width, output power, wavelength range, and intensity. Ultrafast spectroscopy continues to impact and expand the knowledge base of fundamental processes in physics, chemistry, biology, and engineering. A new series of lively, late-night panel discussions were introduced at this meeting, re flecting the maturing of the field into applications, while at the same time keeping a strong interest in fundamentals. Acknowledgements. Many people and organizations contributed to the success of this meeting. The members of the program committee deserve special thanks for reviewing all the papers and organizing the final program. The staff of the Opti cal Society of America very expertly took care of the conference arrangements. This volume contains papers presented at the IFAC symposium on Modeling and control of Economic Systems (SME 2001), which was held at the university of Klagenfurt, Austria. The symposium brought together scientists and users to explore current theoretical developments of modeling techniques for economic systems. It contains a section of plenary, invited and contributed papers presented at the SME 2001 symposium. The papers presented in this volume reflect advances both in methodology and in applications in the area of modeling and control of economic systems. This solutions manual to the exercises in Mechanics of Fluids, 9th ed (hbk ISBN: 978-0-415-60259-4; pbk ISBN: 978-0-415-60260-0) is unchanged from that of the 8th edition of the same book. This book includes the answers to the questions given in the textbook of Candid Chemistry class 9 published by Evergreen Publications Pvt. Ltd. and is for 2022 Examinations. Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25–27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation – large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical

Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering. This is volume 2 of the NUMGE 2018 set. A review of the algorithmic features and capabilities of the unstructured-grid flow solver USM3Dns is presented. This code, along with the tetrahedral grid generator, VGRIDns, is being extensively used throughout the U.S. for solving the Euler and Navier-Stokes equations on complex aerodynamic problems. Spatial discretization is accomplished by a tetrahedral cell-centered finite-volume formulation using Roe's upwind flux difference splitting. The fluxes are limited by either a Superbee or MinMod limiter. Solution reconstruction within the tetrahedral cells is accomplished with a simple, but novel, multidimensional analytical formula. Time is advanced by an implicit backward-Euler time-stepping scheme. Flow turbulence effects are modeled by the Spalart-Allmaras one-equation model, which is coupled with a wall function to reduce the number of cells in the near-wall region of the boundary layer. The issues of accuracy and robustness of USM3Dns Navier-Stokes capabilities are addressed for a flat-plate boundary layer, and a full F-16 aircraft with external stores at transonic speed. This book contains some new developments in the area of Structural Dynamics. In general it reflects the recent efforts of several Austrian research groups during the years 1985 - 1990. The contents of this book cover both theoretical developments as well as practical applications and hence can be utilized by researchers as well as the practicing engineers. Quite naturally, realistic modeling of a number of load types such as wind and earthquake loading, etc. , requires taking into account statistical uncertainties. Hence these loads have to be characterized by stochastic processes. As a consequence, stochastic aspects must play a major role in modem structural dynamics. Since an extended modeling of the load processes should not be counterbalanced by simplifying the structural models, considerable efforts have been put into the development of procedures which allow the utilization of e. g. FE models and codes which are utilized presently in context with simplified, i. e. "deterministic" load models. Thus the processing of the additional information on loads as well as including statistical properties of the material allows to provide additional answers, i. e. quantification of the risk of structural failure. This volume concentrates on four major areas, i. e. on load modeling, structural response analysis, computational reliability procedures, and finally on practical application. Quite naturally only special fields and particular, i. e. selected types of problems can be covered. Specific reference is made, however, to cases where generalizations are possible. This book presents the proceedings of the 9th IFToMM International Conference on Rotor Dynamics. This conference is a premier global event that brings together specialists from the university and industry sectors worldwide in order to promote the exchange of knowledge, ideas, and information on the latest developments and applied technologies in the dynamics of rotating machinery. The coverage is wide ranging, including, for example, new ideas and trends in various aspects of bearing technologies, issues in the analysis of blade dynamic behavior, condition monitoring of different rotating machines, vibration control, electromechanical and fluid-structure interactions in rotating machinery, rotor dynamics of micro, nano and cryogenic machines, and applications of rotor dynamics in transportation engineering. Since its inception 32 years ago, the IFToMM International Conference on Rotor Dynamics has become an irreplaceable point of reference for those working in the field and this book reflects the high quality and diversity of content that the conference continues to guarantee. This is the proceedings of the 9th conference in this series. In addition to papers presented at the conference proper, it contains some papers delivered at Peter G Bergmann's 75th Birthday meeting (Capri, 24 Sept 1990). Among the subjects covered are cosmology and

astrophysics, both theoretical and experimental. This volume presents applications of mathematical techniques for modelling and performance analysis of neural networks. The collection of articles is motivated by the observation that the theory of neural network dynamics, i.e. Neurodynamics, still has to be given a thorough mathematical foundation. Therefore, the volume comprises research work on different mathematical approaches to neural networks; analytical and numerical techniques of dynamical systems theory, geometrical techniques, and methods of statistical physics. Articles analyse dynamics of neural netwroks in general or concentrate on specific network models of biological or neurocomputing origin. A few of the articles serve as a good introduction to these subjects. The book presents an avant-garde and interdisciplinary technical-entrepreneurial approach for ensuring sustainability by bringing a Systems Engineering (SE) novel mechanism applied to telemedicine context making use of space technologies into the light. The distinctive theory from herein incorporates the international expertise of the author, Cristian Vizitiu, on SE and entrepreneurship within space field. This book targets a comprehensive SE technical solution, enriched with knowledge management & entrepreneurial assessment psychometric instruments for Corporate Entrepreneurship (CE) stimulation, to achieve sustainable services based on user-centered approach. Modeling and Analysis of Dynamic Systems, Third Edition introduces MATLAB®, Simulink®, and SimscapeTM and then utilizes them to perform symbolic, graphical, numerical, and simulation tasks. Written for senior level courses/modules, the textbook meticulously covers techniques for modeling a variety of engineering systems, methods of response analysis, and introductions to mechanical vibration, and to basic control systems. These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems. The Third Edition now includes Case Studies, expanded coverage of system identification, and updates to the computational tools included. In this work, outstanding, recent developments in various disciplines, such as structural dynamics, multiphysic mechanics, computational mathematics, control theory, biomechanics, and computer science, are merged together in order to provide academicians and professionals with methods and tools for the virtual prototyping of complex mechanical systems. Each chapter of the work represents an important contribution to multibody dynamics, a discipline that plays a central role in the modelling, analysis, simulation and optimization of mechanical systems in a variety of fields and for a wide range of applications. The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research, the richness of ideas, and the breadth of applications that has come from this field. The second edition builds on the success of the former edition with more than 150 completely new entries, designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced. Particularly heavy attention resulted in health science and transportation, with entries such as "Algorithms for Genomics", "Optimization and Radiotherapy Treatment Design", and "Crew Scheduling". This proceedings book contains the papers presented at the joint conference event of the 9th Symposium on Process Systems Engineering (PSE'2006) and the 16th European Symposium on Computer Aided Process Engineering (ESCAPE-16), held in Garmisch-Partenkirchen, Germany, from July 9 – July 13, 2006. The symposium follows the first joint event PSE’97 / ESCAPE-7 in Trondheim, Norway (1997). The last two venues of the ESCAPE symposia were Barcelona, Spain (2005) and Lisbon, Portugal (2004) and the most recent PSE symposia were held in Kunming, China (2003) and Keystone, Colorado, USA (2000). The purpose of both series is to bring together the international community of researchers engineers who are interested in computing-based methods in process engineering. The main objective of the symposium is to review and present the latest developments and current state in Process Systems Engineering and Computer Aided Process Engineering. The focus of PSE’2006 / ESCAPE-16 has been on Modelling

and Numerical Methods, Product and Process Design, Operations and Control, Biological Systems, Infrastructure Systems, and Business decision support. * reviews and presents the latest developments and current state of Process Systems Engineering and Computer Aided Process Engineering * contains papers presented at a joint conference event * bringing together an international community of researchers and engineers interested in computing-based methods in Process Engineering The book is dedicated as an auxiliary literature for academic staff of universities, research institutes, as well as for students of transport teaching. The aim of the conference was to present the achievements of national and foreign research and scientific centers dealing with the issues of rail, road, air and sea transport in technical and technological aspects, as well as organization and integration of the environment conducting research and education in the discipline of civil engineering and transport. International Scientific Conference Transport of the 21st Century was held in Ryn, Poland, in the 9th–12th of June 2019. The research areas of the conference were as follows: • transport infrastructure and communication engineering, • construction and operation of means of transport, • logistics engineering and transport technology, • organization and planning of transport, including public transport, • traffic control systems in transport, • transport telematics and intelligent transportation systems, • smart city and electromobility, • safety engineering and ecology in transport, • automation of means of transport. It also used by specialists from central and local government authorities in the area of deepening knowledge of modern technologies and solutions used for planning, managing and operating transport. This book includes keynote presentations, invited speeches, and general session papers presented at the 7th International Symposium on Environmental Vibration and Transportation Geodynamics (formerly the International Symposium on Environmental Vibration), held from October 28 to 30, 2016 at Zhejiang University, Hangzhou, China. It discusses topics such as the dynamic and cyclic behaviors of soils, dynamic interaction of vehicle and transportation infrastructure; traffic-induced structure and soil vibrations and wave propagation; soil-structure dynamic interaction problems in transportation; environmental vibration analysis and testing; vehicle, machine and human-induced vibrations; monitoring, evaluation and control of traffic induced vibrations; transportation foundation deformation and deterioration induced by vibration; structural safety and serviceability of railways, metros, roadways and bridges; and application of geosynthetics in transportation infrastructure. It is a valuable resource for government managers, scientific researchers, and engineering professionals engaged in the field of geotechnical and transportation engineering. This book consists of 20 review articles dedicated to Prof. Philip Roe on the occasion of his 60th birthday and in appreciation of his original contributions to computational fluid dynamics. The articles, written by leading researchers in the field, cover many topics, including theory and applications, algorithm developments and modern computational techniques for industry. These are the proceedings of the 9th International Workshop on Hybrid Systems: Computation and Control, HSCC 2006, March 2006. 39 revised papers are presented together with the abstracts of 3 invited talks. The focus is on modeling, analysis, and implementation of dynamic and reactive systems involving both discrete and continuous behaviors. Topics addressed include tools for analysis and verification, control and optimization, modeling, engineering applications, and new directions in language support and implementation. NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). The first conference was held in 1986 in Stuttgart, Germany and the series continued every four years (1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands). The conference provides a forum for exchange of ideas

and discussion on topics related to numerical modelling in geotechnical engineering. Both senior and young researchers, as well as scientists and engineers from Europe and overseas, are invited to attend this conference to share and exchange their knowledge and experiences. This work is the first volume of NUMGE 2018. FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019, compiles the presentations given at the Ninth International Conference on Foundations of Computer-Aided Process Design, FOCAPD-2019. It highlights the meetings held at this event that brings together researchers, educators and practitioners to identify new challenges and opportunities for process and product design. Combines presentations from the Ninth International Conference on Foundations of Computer-Aided Process Design, FOCAPD-2019 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25–27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation – large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially rewritten to present the material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK. Finally, some of the more exotic topics have been moved to the web site. Vector Mechanics for Engineers: Statics provides conceptually accurate and thorough coverage, and its problem-solving methodology gives students the best opportunity to learn statics. This new edition features a significantly refreshed problem set. Key Features Chapter openers with real-life examples and outlines previewing objectives Careful, step-by-step presentation of lessons Sample problems with the solution laid out in a single page, allowing

students to easily see important key problem types Solving Problems on Your Own boxes that prepare students for the problem sets Forty percent of the problems updated from the previous edition In recent years, global metallurgical industries have experienced fast and prosperous growth. High-temperature metallurgical technology is the backbone to support the technical, environmental, and economical needs for the growth. This collection features contributions covering the advancements and developments of new high-temperature metallurgical technologies and their applications to the areas of processing of minerals; extraction of metals; preparation of metallic, refractory and ceramic materials; treatment and recycling of slag and wastes; and saving of energy and protection of environment.The volume will have a broad impact on the academics and professionals serving the metallurgical industries around the world. Structural Dynamics in Industry focuses on the behavior of structures subjected to a vibrational or shock environment. It takes a systematic approach to the basic concepts in order to enhance the reader's understanding and to allow industrial structures to be covered with the necessary degree of depth. The developments are explained with a minimum of mathematics and are frequently illustrated with simple examples, while numerous industry case studies are also provided. The 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist readers. Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools. This volume collects research findings presented at the 9th Edition of the Electronic Structure: Principles and Applications (ESPA-2014) International Conference, held in Badajoz, Spain, on July 2–4, 2014. The contributions cover research work on theory, methods and foundations, materials science, structure and chemical reactivity as well as environmental effects and modelling. Originally published in the journal Theoretical Chemistry Accounts, these outstanding papers are now available in a hardcover print format, as well as a special electronic edition. This volume provides valuable content for all researchers in theoretical chemistry, and will especially benefit those research groups and libraries with limited access to the journal. The study of the correlated motion of electrons in solids is of increasing importance in condensed matter physics. In the past few years, the discovery of high-temperature superconductors has stimulated an enormous theoretical effort in this area, building on earlier theories of heavy-fermion and organic superconductors, and magnetic insulators. In a separate development the discovery of the fractional quantum Hall effect stimulated research into the behavior of the two-dimensional electron gas in a strong transverse magnetic field. The lectures at this school gave a systematic presentation of the current status of the theory in these areas. They covered the fractional quantum Hall effect and the many-body physics of the Hubbard model and its extensions, paying particular attention to the properties of doped insulators which are relevant for high-temperature superconductivity. There were detailed discussions of situations for which controlled calculations may be carried out – specifically infinite dimensions, one dimension, and generalized models in which the fermions have N components and N → •. Contents:Charge Fluctuation Models of Superconductivity (P B Littlewood)Investigation of Correlated Electron Systems Using the Limit of High Dimensions (D Vollhardt)The Large N Expansion in the Strong Correlation Problem (G Kotliar)The Semiclassical Expansion

of the T-J Model (A Auerbach)The Many-Body Problem in One Dimension (V J Emery)Interacting Fermions in One Dimension: From Weak to Strong Correlation (H J Schulz)The Quantum Hall Effect: The Article (A Karlhede et al) Readership: Condensed matter, theoretical and experimental physicists. keywords: “These articles not only cover a wide range of well-established mathematical techniques which are employed in dealing with (strongly) correlated systems, but also consider the physics of some problems of current interest, in particular – but not exclusively – those that are inaugurated by the three successive discoveries in the last decade (in order): those of the integer and fractional quantum Hall effects and that of superconductivity at relatively high temperatures – Tc>23K (1980, 1982, 1986). Specific features of materials which upon doping are transformed into high-Tc superconductors have given rise to a surge of interest in the quantum anti-ferromagnetism, and as a consequence models (such as the Hubbard or the t-J model) which address this phenomenon form the testing ground for many of the techniques presented in this collection … All articles in the present volume are self-contained, and the authors keep the readers well-informed of the connections between their work and those discussed by others in the book. Each article begins with a non-technical introduction which gives a clear overview of the subject matters dealt within it and ends with some remarks which not only summarize the work but also suggest some future directions of research. This, along with the clear presentation of the subjects, makes this book an ideal source of information for those who wish to enter into the areas of research dealt within this book. This collection can also be used as the basis for an advanced course in theoretical physics or as a supplement to an already existing course dealing with the (field-) theoretical methods in condensed-matter physics, or the theory of critical phenomena and phase transitions … Students may find it rewarding to organize a series of seminars on the subjects dealt with in the present collection. Presence of a senior physicst at these seminars will undoubtedly contribute to a deeper understanding of the contents of the book.” B Farid