Answer Key Explore Learning Calorimetry Lab

This is an expanded and revised second edition, presenting accurate and comprehensive information about our leading thermal scientists to current and future generations. In our globalized world, most researchers in thermal analysis do not know each other in person and are not familiar with each other’s achievements. This volume provides the reader with an up-to-date list of the prominent members in this community. The publication contains only living scientists. The selection is based partly on several decades of the editors' personal professional experience and also partly on the opinion of the Regional Editors of the Journal of Thermal Analysis and Calorimetry.

Differential Scanning Calorimetry (DSC) is a well established measuring method which is used on a large scale in different areas of research, development, and quality inspection and testing. Over a large temperature range, thermal effects can be quickly identified and the relevant temperature and the characteristic caloric values determined using substance quantities in the mg range. Measurement values obtained by DSC allow heat capacity, heat of transition, kinetic data, purity and glass transition to be determined. DSC curves serve to identify substances, to set up phase diagrams and to determine degrees of crystallinity. This book provides, for the first time, an overall description of the most important applications of Differential Scanning Calorimetry. Prerequisites for reliable measurement results, optimum evaluation of the measurement curves and estimation of the uncertainties of measurement are, however, the knowledge of the theoretical bases of DSC, a precise calibration of the calorimeter and the correct analysis of the measurement curve. The largest part of this book deals with these basic
aspects: The theory of DSC is discussed for both heat flux and power compensated instruments; temperature calibration and caloric calibration are described on the basis of thermodynamic principles. Desmearing of the measurement curve in different ways is presented as a method for evaluating the curves of fast transitions.

Praise for the prior edition "The author has done a magnificent job... this book is highly recommended for introducing biophysics to the motivated and curious undergraduate student." ?Contemporary Physics "a terrific text ... will enable students to understand the significance of biological parameters through quantitative examples?a modern way of learning biophysics." ?American Journal of Physics "A superb pedagogical textbook... Full-color illustrations aid students in their understanding" ?Midwest Book Review This new edition provides a complete update to the most accessible yet thorough introduction to the physical and quantitative aspects of biological systems and processes involving macromolecules, subcellular structures, and whole cells. It includes two brand new chapters covering experimental techniques, especially atomic force microscopy, complementing the updated coverage of mathematical and computational tools. The authors have also incorporated additions to the multimedia component of video clips and animations, as well as interactive diagrams and graphs. Key Features: Illustrates biological examples with estimates and calculations of biophysical parameters. Features two brand-new chapters on experimental methods, a general overview and focused introduction to atomic force microscopy. Includes new coverage of important topics such as measures of DNA twist, images of nanoparticle assembly, and novel optical and electron nanoscopy. Provides a guide to investigating current expert biophysical research. Enhanced self-study problems and an updated glossary of terms.
Read Online Answer Key Explore Learning Calorimetry Lab

Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME I
Unit 1: Mechanics
Chapter 1: Units and Measurement
Chapter 2: Vectors
Chapter 3: Motion Along a Straight Line
Chapter 4: Motion in Two and Three Dimensions
Chapter 5: Newton's Laws of Motion
Chapter 6: Applications of Newton's Laws
Chapter 7: Work and Kinetic Energy
Chapter 8: Potential Energy and Conservation of Energy
Chapter 9: Linear Momentum and Collisions

"Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

Particle physics is the science that pursues the age-old quest for the innermost structure of matter and the fundamental interactions between its constituents. Modern experiments in this field rely increasingly on calorimetry, a detection technique in which the particles of interest are absorbed in the detector. Calorimeters are very intricate instruments. Their performance characteristics depend on subtle, sometimes counter-intuitive design details. Written by one of the world's foremost experts, Calorimetry is the first comprehensive text on this topic. It provides a fundamental and systematic introduction to calorimetry. It describes the state of the art in terms of both the fundamental understanding of calorimetric particle detection, and the actual detectors that have been or are being built and operated in experiments. The last chapter discusses landmark scientific discoveries in which calorimetry has played an important
role. This book summarizes and puts into perspective the work described in some 900 scientific papers, listed in the bibliography. This second edition emphasizes new developments that have taken place since the first edition appeared in 2000.

Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. * Completely revised to match the new 8th edition of Biology by Campbell and Reece. * New Must Know sections in each chapter focus student attention on major concepts. * Study tips, information organization ideas and misconception warnings are interwoven throughout. * New section reviewing the 12 required AP labs. * Sample practice exams. * The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! Market Description: Intended for those interested in AP Biology.

Drug discovery is an expensive, time-consuming process and the modern drug discovery community is constantly challenged not only with discovering novel bioactive agents to combat resistance from known diseases and fight against
new ones, but to do so in a way that is economically effective. Advances in both experimental and theoretical/computational methods envisage that the greatest challenges in drug discovery can be most successfully addressed by using a multi-scale approach, drawing on the specialties of a whole host of different disciplines. Multi-Scale Approaches to Drug Discovery furnishes chemists with the detail they need to identify drug leads with the highest potential before isolating and synthesizing them to produce effective drugs with greater swiftness than classical methods may allow. This significantly speeds up the search for more efficient therapeutic agents. After an introduction to multi-scale approaches outlining the need for and benefits of their use, the book goes on to explore a range of useful techniques and research areas, and their potential applications to this process. Profiling drug binding by thermodynamics, machine learning for predicting enzyme sub-classes, and multitasking models for computer-aided design and virtual compound screening are discussed, before the book goes on to review Alkaloid Menispermaceae leads, natural chemotherapeutic agents and methods for speeding up the design and virtual screening of therapeutic peptides. Flavonoids as multi-target compounds are then explored, before the book concludes with a review of Quasi-SMILES as a novel tool. Collecting together reviews and original research contributions written by leading experts in
the field, Multi-Scale Approaches to Drug Discovery highlights cutting-edge approaches and practical examples of their implementation for those involved in the drug discovery process at many different levels. Using the combined knowledge of medicinal, computational, pharmaceutical and bio-chemists, it aims to support growth in the multi-scale approach to promote greater success in the development of new drugs. Offers practical guidance on ways to implement multiscale approaches for increased efficiency in drug discovery Draws on the experience of a highly skilled team of authors under the editorial guidance of one of the field's leading experts Includes cutting-edge techniques at the forefront of medicinal chemistry and drug discovery optimization

From celebrated Indigenous author Thomas King and award-winning Métis artist Natasha Donovan comes a powerful graphic novel about a family caught between nations. Borders is a masterfully told story of a boy and his mother whose road trip is thwarted at the border when they identify their citizenship as Blackfoot. Refusing to identify as either American or Canadian first bars their entry into the US, and then their return into Canada. In the limbo between countries, they find power in their connection to their identity and to each other. Borders explores nationhood from an Indigenous perspective and resonates deeply with themes of identity, justice, and belonging.
This book introduces readers to the development of Lesson Study (LS) in the UK, making historical connections to the growth of Lesson Study in Japan, East Asia, the US and Europe. It explains how to conduct LS in schools and educational institutions, providing examples of compelling, externally evaluated impact outcomes for both primary learners and teacher learners, and vivid exemplars of LS in action across age ranges and curricular contexts. Each chapter presents international research outcomes that clearly demonstrate how and why LS has a place within teacher learning approaches that have the greatest impact and the greatest capacity building potential for creating outstanding teaching. This is supported by primary research evidence, and linked with contemporary and recent high quality research worldwide into pupil learning, teacher learning, school improvement and system improvement. The book illustrates the diverse application of LS for innovating or transferring highly effective practices in a variety of contexts to boost learning for children with a range of challenges and specific needs. Lesson Study provides a global perspective on the development of LS worldwide, exploring its impact on innovation, creativity, curricula and achievement in a variety of contexts. It will be of key interest to practitioners in schools and teacher education institutions, researchers, and policy and decision-makers at local, national and international levels. The book’s explicit focus on
the leadership of local authorities will also make it valuable reading for all leaders of professional development and school improvement. Chemistry and chemical engineering have changed significantly in the last decade. They have broadened their scope—into biology, nanotechnology, materials science, computation, and advanced methods of process systems engineering and control—so much that the programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery, and invention across the entire spectrum of the chemical sciences—from fundamental, molecular-level chemistry to large-scale chemical processing technology. This reflects the way the field has evolved, the synergy at universities between research and education in chemistry and chemical engineering, and the way chemists and chemical engineers work together in industry. The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable. This book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from terrorism defense to environmental protection, and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future.
Interactive General Chemistry meets students where they are... with a general chemistry program designed for the way students learn. Achieve provides a new platform for Interactive General Chemistry, thoughtfully developed to engage students for better outcomes. Powerful data and analytics provide instructors with actionable insights on a platform that allows flexibility to align with a broad variety of teaching and learning styles and the exciting Interactive General Chemistry program! Whether a student's learning path starts with problem solving or with reading, Interactive General Chemistry delivers the learning experience he or she needs to succeed in general chemistry. Built from the ground up as a digital learning program, Interactive General Chemistry combines the Sapling Learning homework platform with a robust e-book with seamlessly embedded, multimedia-rich learning resources. This flexible learning environment helps students effectively and efficiently tackle chemistry concepts and problem solving. Student-centered development In addition to Macmillan's standard rigorous peer review process, student involvement was critical to the development and design of Interactive General Chemistry. Using extensive research on student study behavior and data collection on the resources and tools that most effectively promote understanding, we crafted this complete course solution to intentionally embrace the way that students learn. Digital-first experience Interactive General
Chemistry was built from the ground up to take full advantage of the digital learning environment. High-quality multimedia resources--including Sapling interactives, PhET simulations, and new whiteboard videos by Tyler DeWitt--are seamlessly integrated into a streamlined, uncluttered e-book. Embedded links provide easy and efficient navigation, enabling students to link to review material and definitions as needed. Problems drive purposeful study Our research into students' study behavior showed that students learn best by doing--so with Interactive General Chemistry, homework problems are designed to be a front door for learning. Expanding upon the acclaimed Sapling homework--where every problem contains hints, targeted feedback, and detailed step-by-step solutions--embedded resources link problems directly to the multimedia-rich e-book, providing just-in-time support at the section and chapter level.

This is Volume 5 of a Handbook that has been well-received by the thermal analysis and calorimetry community. All chapters in all five volumes are written by international experts in the subject. The fifth volume covers recent advances in techniques and applications that complement the earlier volumes. The chapters refer wherever possible to earlier volumes, but each is complete in itself. The latest recommendations on Nomenclature are also included. Amongst the important new techniques that are covered are micro-thermal analysis,
pulsed thermal analysis, fast-scanning calorimetry and the use of quartz-crystal microbalances. There are detailed reviews of heating - stage spectroscopy, the range of electrical techniques available, applications in rheology, catalysis and the study of nanoparticles. The development and application of isoconversational methods of kinetic analysis are described and there are comprehensive chapters on the many facets of thermochemistry and of measuring thermophysical properties. Applications to inorganic and coordination chemistry are reviewed, as are the latest applications in medical and dental sciences, including the importance of polymorphism. The volume concludes with a review of the use and importance of thermal analysis and calorimetry in quality control. * Updates and complements previous volumes * Internationally recognized experts as authors * Each chapter complete in itself

Introducing the Pearson Physics Queensland 11 Skills and Assessment Book. Fully aligned to the new QCE 2019 Syllabus. Write in Skills and Assessment Book written to support teaching and learning across all requirements of the new Syllabus, providing practice, application and consolidation of learning. Opportunities to apply and practice performing calculations and using algorithms are integrated throughout worksheets, practical activities and question sets. All activities are mapped from the Student Book at the recommend point of
engagement in the teaching program, making integration of practice and rich learning activities a seamless inclusion. Developed by highly experienced and expert author teams, with lead Queensland specialists who have a working understand what teachers are looking for to support working with a new syllabus. Fourteen-year-old Lincoln Mendoza, an aspiring basketball player, must come to terms with his divided loyalties when he moves from the Hispanic inner city to a white suburban neighborhood. Reissue. 40,000 first printing.

In the past decades, the scan rate range of calorimeters has been extended tremendously at the high end, from approximately 10 up to 10 000 000 °C/s and more. The combination of various calorimeters and the newly-developed Fast Scanning Calorimeters (FSC) now span 11 orders of magnitude, by which many processes can be mimicked according to the time scale(s) of chemical and physical transitions occurring during cooling, heating and isothermal stays in case heat is exchanged. This not only opens new areas of research on polymers, metals, pharmaceuticals and all kinds of substances with respect to glass transition, crystallization and melting phenomena, it also enables in-depth study of metastability and reorganization of samples on an 1 to 1000 ng scale. In addition, FSC will become a crucial tool for understanding and optimization of processing methods at high speeds like injection molding. The book resembles
the state-of-the art in Thermal Analysis & Calorimetry and is an excellent starting point for both experts and newcomers in the field. Matthew Johll’s Exploring Chemistry overs the standard topics for the nonmajors course in the typical order, but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real-life situations. For example, students work through the often-difficult topics of molecular structure, gas laws, and organic chemistry by learning about the development of powerful new chemotherapy drugs, new technologies for screening airline passengers, and the creation of biodegradable biopolymers. It's the same same case-driven approach that Johll uses in his acclaimed Investigating Chemistry (now in its Third Edition) but Exploring Chemistry goes beyond the other book’s specific focus on examples from forensic science to use real-life stories from cooking, athletics, genetics, green chemistry, and more. Over the last decade, high-sensitivity calorimetry has developed from a specialist method used mainly by dedicated experts to a major, commercially available tool in the arsenal directed at understanding molecular interactions and stability. Calorimeters have now become commonplace in bioscience laboratories. As a result, the number of those proficient in experimentation in this field has risen dramatically, as has the range of experiments to which these methods have been
applied. Applications extend from studies in small molecule and solvent biophysics, through drug screening to whole cell assays. The technology has developed to include higher levels of sensitivity (and hence smaller sample size requirements) and a drive towards high-throughput technology, creating a very large user base in both academia and the pharmaceutical industry. This book is a fully revised and updated edition of the successful Biocalorimetry: Applications of Calorimetry in the Biological Sciences, published in 1998. Since then, there have been many advances in the instrumentation as well as in its applications and methodology. There are general chapters highlighting the usage of the isothermal titration calorimeter and the differential scanning calorimeter, more advanced chapters on specific applications and tutorials that cover the idiosyncrasies of experimental methods and data analysis. The book draws these together to create the definitive biological calorimetric text book. This book both explains the background to the method and describes novel, high-impact applications. It features works of interest to the experienced calorimetrist and the enthusiastic dilettante. The book should be of interest to all working in the field of biocalorimetry, from graduate students to researchers in academia and in industry.

This classic sets forth the fundamentals of thermodynamics and kinetic theory
simply enough to be understood by beginners, yet with enough subtlety to appeal to more advanced readers, too.
This is a textbook for the standard undergraduate-level course in thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life. Completely revised and updated to reflect the current IUPAC standards, this second edition is enlarged by five new chapters dealing with the assessment of energy potential, physical unit operations, emergency pressure relief, the reliability of risk reducing measures, and process safety and process development. Clearly structured in four parts, the first provides a general introduction and presents the theoretical, methodological and experimental aspects of thermal risk assessment. Part II is devoted to desired reactions and techniques allowing reactions to be mastered on an industrial scale, while the third part deals with secondary reactions, their characterization, and techniques to avoid triggering them. Due to the inclusion of new content and restructuring measures, the technical aspects of risk reduction are highlighted in the new section that constitutes the final part. Each chapter begins with a case history illustrating the topic in question, presenting lessons learned from the incident. Numerous examples taken from industrial practice are analyzed, and each chapter concludes with a series of exercises or case studies, allowing readers to check their understanding of the subject matter. Finally, additional control questions have been added and solutions to the exercises and problems can now be found.
Differential Scanning Calorimetry: Applications in Fat and Oil Technology provides a complete
summary of the scientific literature about differential scanning calorimetry (DSC), a well-known thermo-analytical technique that currently has a large set of applications covering several aspects of lipid technology. The book is divided into three major sections. The first section covers the applications of DSC to study cooling and heating profiles of the main source of oils and fats. The second is more theoretical, discussing the application of DSC coupled to related thermal techniques and other physical measurements. And the third covers specific applications of DSC in the field of quality evaluation of palm, palm kernel, and coconut oils and their fractions as well as of some other important aspects of lipid technology such as shortening and margarine functionality, chocolate technology, and food emulsion stability. This book is a helpful resource for academicians, food scientists, food engineers and technologists, food industry operators, government researchers, and regulatory agencies.

Clearly divided into three parts, this practical book begins by dealing with all fundamental aspects of calorimetry. The second part looks at the equipment used and new developments. The third and final section provides measurement guidelines in order to obtain the best results. The result is optimized knowledge for users of this technique, supplemented with practical tips and tricks.

This is the only authoritative textbook on metabolic measurement of animals, ranging in mass from fruit flies to whales. It integrates a rigorous theoretical background with detailed practical guidelines for making actual measurements in the field and laboratory.

Give your fourth grader a fun-filled way to build and reinforce spelling skills. Spectrum Spelling for grade 4 provides progressive lessons in prefixes, suffixes, vowel sounds, compound words, easily misspelled words, and dictionary skills. This exciting language arts workbook
encourages children to explore spelling with brainteasers, puzzles, and more! Don’t let your child’s spelling skills depend on spellcheck and autocorrect. Make sure they have the knowledge and skills to choose, apply, and spell words with confidence—and without assistance from digital sources. Complete with a speller’s dictionary, a proofreader’s guide, and an answer key, Spectrum Spelling offers the perfect way to help children strengthen this important language arts skill.

Chemistry 2e Borders Little, Brown Books for Young Readers

Process Plant Machinery provides the mechanical, chemical or plant engineer with the information needed to choose equipment best suited for a particular process, to determine optimum efficiency, and to conduct basic troubleshooting and maintenance procedures. Process Plant Machinery is a unique single-source reference for engineers, managers and technical personnel who need to acquire an understanding of the machinery used in modern process plants: prime movers and power transmission machines; pumping equipment; gas compression machinery; and mixing, conveying, and separation equipment. Starting with an overview of each class, the book quickly leads the reader through practical applications and size considerations into profusely illustrated component descriptions. Where necessary, standard theory is expertly explained in shortcut formulas and graphs. Maintainability and vulnerability concerns are dealt with as well. Fully updated with all new equipment available

Comprehensive Coverage Multi-industry relevance

Experimental Chemical Thermodynamics, Volume 1: Combustion Calorimetry covers the advances in calorimetric study of combustion, with particular emphasis on the accuracy of the method. This book is composed of 18 chapters, and begins with a
presentation of the units and physical constants with the basic units of measurements. The succeeding chapters deal with basic principles of combustion calorimetry, emphasizing the underlying basic principles of measurement. These topics are followed by discussions on calibration of combustion calorimeters, test and auxiliary substances in combustion calorimetry, strategies in the calculation of standard-state energies of combustion from the experimentally determined quantities, and assignment of uncertainties. The final chapter considers the history of combustion calorimetry. This book will prove useful to combustion chemists and engineers, as well as researchers in the allied fields.

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A UNIQUE NEW APPROACH THAT’S LIKE A LIGHTNING BOLT TO THE BRAIN

You know that moment when you feel as though a lightning bolt has hit you because you finally get something? That’s how this book will make you react. (We hope!) Each chapter makes sure that what you really need to know is clear right off the bat and sees to it that you build on this knowledge. Where other books ask you to memorize stuff, we’re going to show you the must know ideas that will guide you toward success in chemistry. You will start each chapter learning what the must know ideas behind a chemistry subject are, and these concepts will help you solve the chemistry problems that you find in your classwork and on exams. Dive into this book
and find: • 250+ practice questions that mirror what you will find in your classwork and on exams • A bonus app with 100+ flashcards that will reinforce what you’ve learned • Extensive examples that drive home essential concepts • An easy-access setup that allows you to jump in and out of subjects • Chemistry topics aligned to national and state education standards • Special help for more challenging chemistry subjects, including the mole concept, stoichiometry, and solutions We’re confident that the must know ideas in this book will have you up and solving chemistry problems in no time—or at least in a reasonable amount of time!

The years 2006 and 2007 mark a dramatic change of peoples view regarding climate change and energy consumption. The new IPCC report makes clear that mankind plays a dominant role on climate change due to CO emissions from energy consumption, and that a significant reduction in CO emissions is necessary within decades. At the same time, the supply of fossil energy sources like coal, oil, and natural gas becomes less reliable. In spring 2008, the oil price rose beyond 100 $/barrel for the first time in history. It is commonly accepted today that we have to reduce the use of fossil fuels to cut down the dependency on the supply countries and to reduce CO emissions. The use of renewable energy sources and increased energy efficiency are the main strategies to achieve this goal. In both strategies, heat and cold storage will play an important role. People use energy in different forms, as heat, as mechanical energy, and as light. With the discovery of fire, humankind was the first time able to
supply heat and light when needed. About 2000 years ago, the Romans started to use ceramic tiles to store heat in under floor heating systems. Even when the fire was out, the room stayed warm. Since ancient times, people also know how to cool food with ice as cold storage.

Antoine Lavoisier's great accomplishments include the discovery of oxygen's role in combustion, helping to develop the metric system, writing the first extensive list of elements, helping to reform the nomenclature of chemistry, and the discovery that while matter may change shape through chemical reaction its mass remains the same. It is for these extraordinary accomplishments that he is often referred to as the "Father of Modern Chemistry." Some scholars argue that this moniker is more the result of self-promotion and that his discoveries relied heavily on the work of others, nonetheless his impact on advancing this field of science cannot be understated. "Elements of Chemistry" was first published in 1790 and is largely concerned with the chemistry of combustion. While modern students of chemistry might find the work limited in its scope, the historical impact of its publication cannot be understated. The experiments contained within helped to lay the foundation for the understanding of the role of oxygen, hydrogen, acids, and alcohols in chemical reactions and its emphasis on quantitative analysis and instrumentation helped to establish the use of chemistry as a legitimate science for understanding and defining the physical world.

Following significant advances in deep learning and related areas interest in artificial
intelligence (AI) has rapidly grown. In particular, the application of AI in drug discovery provides an opportunity to tackle challenges that previously have been difficult to solve, such as predicting properties, designing molecules and optimising synthetic routes. Artificial Intelligence in Drug Discovery aims to introduce the reader to AI and machine learning tools and techniques, and to outline specific challenges including designing new molecular structures, synthesis planning and simulation. Providing a wealth of information from leading experts in the field this book is ideal for students, postgraduates and established researchers in both industry and academia.

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