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Advances in Phased Array Ultrasonic Technology Applications 2007

Activation of Small Molecules William B. Tolman 2006-12-13 The first to combine both the bioinorganic and the organometallic view, this handbook provides all the necessary knowledge in one convenient volume. Alongside a look at CO2 and N2 reduction, the authors discuss O2, NO and N2O binding and reduction, activation of H2 and the oxidation catalysis of O2. Edited by the highly renowned William Tolman, who has won several awards for his research in the field.

Automotive Heating & Air Conditioning Editors of Haynes Manuals 2011-05-01 Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

National Automotive Sampling System, Crashworthiness Data System 1993

Interpreting the Late Neolithic of Upper Mesopotamia Olivier Nieuwenhuyse 2013 The times between the Neolithic and Urban revolutions in Mesopotamia have for a long time been interpreted as a period of stagnation. This volume is part of an emerging discourse that challenges such assumptions. Focussing upon the northern parts of ancient Western Asia, where most recent research has concentrated, an international group of researchers demonstrates that Upper Mesopotamia underwent complex historical changes that we just begin to grasp fully. The Late Neolithic was a critical phase of the history of the ancient Middle East. Authors investigate settlement patterns, practices of painting pottery, distributions of various raw materials, the role of craft industries, the emergence of seals and other issues from a variety of theoretical and practical questions. The book is a must-have for prehistorians working in the Near East, and a rich source of information for archaeologists working in other parts of the world. Olivier Nieuwenhuyse is a Research Fellow at Leiden University and at the DAI-Berlin. His research focuses on reconstructions of landscape and prehistoric settlement and the meanings of material culture. Reinhard Bernbeck is professor at the Freie Universitat Berlin and Binghamton University, New York. His research focuses on critical assessments of ancient Western Asian prehistory and historical periods. Peter Akkermans is professor at Leiden University. He is the director of the excavations at Tell Sabi Abyad and had published widely on the prehistory of the ancient Near East.

Advances in Sustainable Polymers Vimal Katiyar 2019-11-05 This book provides a systematic overview of the processing and applications of sustainable polymers. The volume covers recent advances in biomedical, food packaging, fuel cell, membrane, and other emerging applications. The book begins by addressing different sections of biomedical application including use of carbohydrate-based therapeutics, nanohybrids, nanohydrogels, bioresorbable polymers and their composites, polymer-grafted nanobiomaterials for biomedical devices and implants, nanofibers, and others. The second part of this book discusses various processing and packaging materials for food packaging applications. The last section discusses other emerging applications, including using microbial fuel cells for waste water treatment, microfluidic fuel cells for low power applications, among others. This volume will be relevant to researchers working to improve the properties of bio-based materials for their advanced application and wide commercialization.

Chilton Labor Guide (Chilton) Chilton 2003-12-01 Professional technicians have relied on the Chilton Labor Guide estimated repair times for decades. This latest edition expands on that reliability by including technical hotline feedback and research from professional labor experts. The labor times reflect actual vehicle conditions found in the aftermarket, including rust, wear and grime. Available in both hardcover and CD-ROM, this completely revised manual provides thousands of labor times for 1981 through current year domestic and imported vehicles. All times reflect technicians' use of aftermarket tools and training. *Carbon Fibers* Soo-jin Park 2014-10-08 This book contains eight chapters that discuss the manufacturing methods, surface treatment, composite interfaces, microstructure-property relationships with underlying fundamental physical and mechanical principles, and applications of carbon fibers and their composites. Recently, carbon-based materials have received much attention for their many potential applications. The carbon fibers are very strong, stiff, and lightweight, enabling the carbon materials to deliver improved performance in several applications such as aerospace, sports, automotive, wind energy, oil and gas, infrastructure, defense, and semiconductors. However, the use of carbon fibers in cost-sensitive, high-volume industrial applications is limited because of their relatively high costs. However, its production is expected to increase because of its widespread use in high-volume industrial applications; therefore, the methods used for manufacturing carbon fibers and carbon-fiber-reinforced composites and their structures and characteristics need to be investigated.

The Practice of Business Statistics David S. Moore 2009 This book immerses students in the course immediately, involving them in practical, statistics-supported business decision making from the outset. Using real data to provide a context for tackling modern business problems, it introduces a range of core ideas early.

Multimedia Tools and Applications for Environmental & Biodiversity Informatics Alexis July 2018-06-19 This edited volume focuses on the latest and most impactful advancements of multimedia data globally available for environmental and earth biodiversity. The data reflects the status, behavior, change as well as human interests and concerns which are increasingly crucial for understanding environmental issues and phenomena. This volume addresses the need for the development of advanced methods, techniques and tools for collecting, managing, analyzing, understanding and modeling environmental & biodiversity data, including the automated or collaborative species identification, the species distribution modeling and their environment, such as the air quality or the bio-acoustic monitoring. Researchers and practitioners in multimedia and environmental topics will find the chapters essential to their continued studies.

Andean Cocaine Paul Gootenberg 2009-06-01 Illuminating a hidden and fascinating chapter in the history of globalization, Paul Gootenberg chronicles the rise of one of the most spectacular and now illegal Latin American exports: cocaine. Gootenberg traces cocaine's history from its origins as a medical commodity in the nineteenth century to its repression during the early twentieth century and its dramatic reemergence as an illicit good after World War II. Connecting the story of the drug's transformations is a host of people, products, and processes: Sigmund Freud, Coca-Cola, and Pablo Escobar all make appearances, exemplifying the global influences that have shaped the history of cocaine. But Gootenberg decenters the familiar story to uncover the roles played by hitherto obscure but vital Andean actors as well—for example, the Peruvian pharmacist who developed the techniques for refining cocaine on an industrial scale and the creators of the original drug-smuggling networks that decades later would be taken over by Colombian traffickers. Andean Cocaine proves indispensable to understanding one of the most vexing social dilemmas of the late twentieth-century Americas: the American cocaine epidemic of the 1980s and, in its wake, the seemingly endless U.S. drug war in the Andes.

Advances in Polymer Nanocomposites Fenge Gao 2012-10-19 The addition of nanoparticles to polymer composites has led to a new generation of composite materials with enhanced and novel properties. Advances in polymer nanocomposites reviews the main types of polymer nanocomposites and their applications. Part one reviews types of polymer nanocomposites according to fillers. Processing of carbon nanotube-based nanocomposites, layered double hydroxides (LDHs) and cellulose nanoparticles as functional fillers and reinforcement are discussed, alongside calcium carbonate and metal-polymer nanocomposites. Part two focuses on types of polymer nanocomposites according to matrix polymer, with polyolefin-based, (PVC)-based, nylon-based, (PET)-based and thermoplastic polyurethane (TPU)-based polymer nanocomposites discussed. Soft, gel and biodegradable polymer nanocomposites are also considered. Part three goes on to investigate key applications, including fuel cells, aerospace applications, optical applications, coatings and flame-retardant polymer nanocomposites. With its distinguished editor and international team of expert contributors, Advances in polymer nanocomposites is an essential guide for professionals and academics involved in all aspects of the design, development and application of polymer nanocomposites. Reviews the main types of polymer nanocomposites and their applications Discusses processing of carbon nanotube-based nanocomposites, layered double hydroxides (LDHs) and cellulose nanoparticles as functional fillers and reinforcement Discusses polyolefin-based, (PVC)-based, nylon-based, (PET)-based and thermoplastic polyurethane (TPU)-based polymer nanocomposites

Sustainable Food Packaging Technology Athanassia Athanassiou 2021-05-10 Towards more sustainable packaging with biodegradable materials! The combination of the continuously increasing food packaging waste with the non-biodegradable nature of the plastic materials that have a big slice of the packaging market makes it necessary to move towards sustainable packaging for the benefit of the environment and human health. Sustainable packaging is the type of packaging that can provide to food the necessary protection conditions, but at the same type is biodegradable and can be disposed as organic waste to the landfills in order to biodegrade through a natural procedure. In this way, sustainable packaging becomes part of the circular economy.

?Sustainable Food Packaging Technology? deals with packaging solutions that use engineered biopolymers or biocomposites that have suitable physicochemical properties for food contact and protection and originate both from renewable or non-renewable resources, but in both cases are compostable or edible. Modified paper and cardboard with increased protective properties towards food while keeping their compostability are presented as well. The book also covers natural components that can make the packaging functional, e.g., by providing active protection to the food indicating food spoilage. * Addresses urgent problems: food packaging creates a lot of hard-to-recycle waste - this book puts forward more sustainable solutions using biodegradable materials * State-of-the-art: ?Sustainable Food Packaging Technology? provides knowledge on new developments in functional packaging * From lab to large-scale applications: expert authors report on the technology aspects of sustainable packaging

Food Emulsifiers and Their Applications Richard W Hartel 2013-04-17 Food emulsions have existed since long before people began to process foods for distribution and consumption. Milk, for example, is a natural emulsion/colloid in which a nutritional fat is stabilized by a milk-fat-globule membrane. Early processed foods were developed when people began to explore the art of cuisine. Butter and gravies were early foods used to enhance flavors and aid in cooking. By contrast, food emulsifiers have only recently been recognized for their abil ity to stabilize foods during processing and distribution. As economies of scale emerged, pressures for higher quality and extension of shelf life prodded the de velopment of food emulsifiers and their adjunct technologies. Natural emulsifiers, such as egg and milk proteins and phospholipids, were the first to be generally utilized. Development of technologies for processing oils, such as refining, bleaching, and hydrogenation, led to the design of synthetic food emulsifiers. Formulation of food emulsions has, until recently, been practiced more as an art than a science. The complexity of food systems has been the barrier to funda mental understanding. Scientists have long studied emulsions using pure water, hydrocarbon, and surfactant, but food systems, by contrast, are typically a com plex mixture of carbohydrate, lipid, protein, salts, and acid. Other surface-active ingredients, such as proteins and phospholipids, can demonstrate either syner- XV xvi Preface gistic or deleterious functionality during processing or in the finished food.

3D Printing and Biofabrication Aleksandr Ovsianikov 2017-10-23 This volume provides an in-depth introduction to 3D printing and biofabrication and covers the recent advances in additive manufacturing for tissue engineering. The book is divided into two parts, the first part on 3D printing discusses conventional approaches in additive manufacturing aimed at fabrication of structures, which are seeded with cells in a subsequent step. The second part on biofabrication presents processes which integrate living cells into the fabrication process.

Global Marketing, Global Edition Warren J. Keegan 2015-04-30 For undergraduate and graduate courses in global marketing The excitement, challenges, and controversies of global marketing. Global Marketing reflects current issues and events while offering conceptual and analytical tools that will help students apply the 4Ps to global marketing. MyMarketingLab for Global Marketing is a total learning package. MyMarketingLab is an online homework, tutorial, and assessment program that truly engages students in learning. It helps students better prepare for class, quizzes, and exams-resulting in better performance in the course-and provides educators a dynamic set of tools for gauging individual and class progress.

Biomanufacturing Chander Prakash 2019-03-20 Current Trends in Biomanufacturing focuses on cutting-edge research regarding the design, fabrication,

assembly, and measurement of bio-elements into structures, devices, and systems. The field of biomaterial and biomufacturing is growing exponentially in order to meet the increasing demands of for artificial joints, organs and bone-fixation devices. Rapid advances in the biological sciences and engineering are leading to newer and viable resources, methods and techniques that may providing better quality of life and more affordable health care services. The book covers the broad aspects of biomanufacturing, including: synthesis of biomaterials; implant coating techniques; spark plasma sintering; microwave processing; and cladding, powder metallurgy and electrospinning. The contributors illustrate the recent trends of biomanufacturing, highlighting the important aspects of biomaterial synthesis, and their use as feedstock of fabrication technologies and their characterization, along with their clinical practices. Current Trends in Biomanufacturing updates researchers and scientists the novelties and techniques of the field, as it summarises numerous aspects of biomanufacturing, including synthesis of biomaterials, fabrication of biomedical structures, their in-vivo/ in-vitro, mechanical analysis and associated ISO standards.

Fuel economy labeling of motor vehicles revisions to improve calculation of fuel economy estimate.

Active Food Packaging M.L. Rooney 2012-12-06 Food packaging materials have traditionally been chosen to avoid unwanted interactions with the food. During the past two decades a wide variety of packaging materials have been devised or developed to interact with the food. These packaging materials, which are designed to perform some desired role other than to provide an inert barrier to outside influences, are termed 'active packaging'. The benefits of active packaging are based on both chemical and physical effects. Active packaging concepts have often been presented to the food industry with few supporting results of background research. This manner of introduction has led to substantial uncertainty by potential users because claims have sometimes been based on extrapolation from what little proven information is available. The forms of active packaging have been chosen to respond to various food properties which are often unrelated to one another. For instance many packaging requirements for post harvest horticultural produce are quite different from those for most processed foods. The object of this book is to introduce and consolidate information upon which active packaging concepts are based. Scientists, technologists, students and regulators will find here the basis of those active packaging materials, which are either commercial or proposed. The book should assist the inquirer to understand how other concepts might be applied or where they should be rejected.

Machine Learning and Systems Engineering Sio-long Ao 2010-10-05 A large international conference on Advances in Machine Learning and Systems Engineering was held in UC Berkeley, California, USA, October 20-22, 2009, under the auspices of the World Congress on Engineering and Computer Science (WCECS 2009). Machine Learning and Systems Engineering contains forty-six revised and extended research articles written by prominent researchers participating in the conference. Topics covered include Expert system, Intelligent decision making, Knowledge-based systems, Knowledge extraction, Data analysis tools, Computational biology, Optimization algorithms, Experiment designs, Complex system identification, Computational modeling, and industrial applications. Machine Learning and Systems Engineering offers the state of the art of tremendous advances in machine learning and systems engineering and also serves as an excellent reference text for researchers and graduate students, working on machine learning and systems engineering.

National Accident Sampling System 1981

Mitsubishi Pajero Automotive Repair Manual Jeff Killingsworth 2012-09-01 This is a maintenance and repair manual for the DIY mechanic. The book covers the Mitsubishi Pajero, 1997-2009 models.

Standard Catalog of Imported Cars, 1946-1990 James M. Flammang 1992 This book provides a wealth of detailed information that collectors, investors, and restorers of imported cars will not find in any other book. This massive volume spans the marques of imported vehicles. The list includes such familiar names as Alfa Romeo, Aston Martin, Bentley, Citroen, Jaguar, Lamborghini, Porsche, Rolls-Royce, Saab, and Volkswagen. Also in these pages, you'll find details on such lesser-known yet no less intriguing marques as Abarth, DAF, Frazer Nash, Humber, Iso, Nardi, Panhard, Peerless, Sabra and Skoda. The book also highlights model changes and corporate histories and provides value information on the most popular models of imported cars.

Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making Cengiz Kahraman 2019-07-05 This book includes the proceedings of the Intelligent and Fuzzy Techniques INFUS 2019 Conference, held in Istanbul, Turkey, on July 23-25, 2019. Big data analytics refers to the strategy of analyzing large volumes of data, or big data, gathered from a wide variety of sources, including social networks, videos, digital images, sensors, and sales transaction records. Big data analytics allows data scientists and various other users to evaluate large volumes of transaction data and other data sources that traditional business systems would be unable to tackle. Data-driven and knowledge-driven approaches and techniques have been widely used in intelligent decision-making, and they are increasingly attracting attention due to their importance and effectiveness in addressing uncertainty and incompleteness. INFUS 2019 focused on intelligent and fuzzy systems with applications in big data analytics and decision-making, providing an international forum that brought together those actively involved in areas of interest to data science and knowledge engineering. These proceeding feature about 150 peer-reviewed papers from countries such as China, Iran, Turkey, Malaysia, India, USA, Spain, France, Poland, Mexico, Bulgaria, Algeria, Pakistan, Australia, Lebanon, and Czech Republic.

China's Financing in Latin America and the Caribbean Enrique Dussel Peters 2020

Sensors and Transducers Ian Sinclair 2000-12-05 In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and application of sensors, transducers and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths

Weber Carburetor Manual John Haynes 1996-02-19 This series of comprehensive manuals gives the home mechanic an in-depth look at specific areas of auto repair.

Manual on Classification of Motor Vehicle Traffic Accidents American National Standard 2007-08-02 The primary purpose of the Manual of Classification of Motor Vehicle Traffic Accidents is to promote uniformity and comparability of motor vehicle traffic accident statistics now being developed in Federal, state and local jurisdictions. This manual is divided into two sections, one containing definitions and one containing classification instructions.

Automotive News

Sustainability Science Hiroshi Komiyaama 2011 Hideaki Shiroyama is Professor at the Graduate Schools for Law and Politics, The University of Tokyo, Japan. -

- *How to Super Tune and Modify Holley Carburetors* David Vizard 2013 In How to Super Tune and Modify Holley Carburetors, best selling author Vizard explains the science, the function, and most importantly, the tuning expertise required to get your Holley carburetor to perform its best for your performance application.

Advances in Tuna Aquaculture Daniel Benetti 2015-11-21 Advances in Tuna Aquaculture: From Hatchery to Market provides detailed overviews on the current status of tuna fisheries, fattening, and farming practices, as well as advances in closed-cycle tuna aquaculture. Contributors are renowned scientists, internationally recognized as authorities in their fields. This book addresses all basic and applied aspects of tuna aquaculture, presenting and discussing the global status of tuna fisheries, reproduction, broodstock management, spawning, larval rearing and early developmental stages including nursery and grow out methods. It presents incorporates the most comprehensive and updated data, statistics, and trends in tuna fisheries and aquaculture, covering and addresses a variety of topics ranging fromfrom endocrinology, nutrition, diseases, and genetics to economics and markets. It covers describes recent up-to-date progress on tuna aquaculture and hatchery development. It also provides a synopsis overview of the challenges presently confronted by tuna aquaculturists,facing tuna aquaculture and and offers innovative views on the challengesbottle-neck issues faced by the industry with the current shift from fisheries to fattening to closed-cycle aquaculture. This is the first book to encompass all aspects related to the tuna aquaculture industry, and merges them into a state-of-the-art compendium that will serve as seminal reference for students, researchers, and professionals working with tuna biology, fisheries, and aquaculture worldwide. Incorporates and reviews the most recent information on tuna fisheries and aquaculture Presents the most innovative production technologies in tuna aquaculture, from hatchery to market Includes important information on tuna, derived from industry experience and academic research on larval rearing technology and grow out operations Encompasses and discusses key topics such as genetics, diseases, nutrition, endocrinology, and reproduction, as well as developments, challenges, and future opportunities in tuna aquaculture Provides the latest scientific methods and technologies to maximize efficiencies and production Presents the independent and collective assessments, viewpoints, and visions of various scientists, all internationally recognized as authorities in the field

The Superalloys Roger C. Reed 2008-07-31 Superalloys are unique high-temperature materials used in gas turbine engines, which display excellent resistance to mechanical and chemical degradation. This book presents the underlying metallurgical principles which have guided their development and practical aspects of component design and fabrication from an engineering standpoint. The topics of alloy design, process development, component engineering, lifetime estimation and materials behaviour are described, with emphasis on critical components such as turbine blading and discs. The first introductory text on this class of materials, it will provide a strong grounding for those studying physical metallurgy at the advanced level, as well as practising engineers. Included at the end of each chapter are exercises designed to test the reader's understanding of the underlying principles presented. Solutions for instructors and additional resources are available at www.cambridge.org/9780521859042.

eIoT Steffi O. Muhanjri 2019-02-20 This open access book explores the collision between the sustainable energy transition and the Internet of Things (IoT). In that regard, this book's arrival is timely. Not only is the Internet of Things for energy applications, herein called the energy Internet of Things (eIoT), rapidly developing but also the transition towards sustainable energy to abate global climate is very much at the forefront of public discourse. It is within the context of these two dynamic thrusts, digitalization and global climate change, that the energy industry sees itself undergoing significant change in how it is operated and managed. This book recognizes that they impose five fundamental energy management change drivers: 1.) the growing demand for electricity, 2.) the emergence of renewable energy resources, 3.) the emergence of electrified transportation, 4.) the deregulation of electric power markets, 5.) and innovations in smart grid technology. Together, they challenge many of the assumptions upon which the electric grid was first built. The goal of this book is to provide a single integrated picture of how eIoT can come to transform our energy infrastructure. This book links the energy management change drivers mentioned above to the need for a technical energy management solution. It, then, describes how eIoT meets many of the criteria required for such a technical solution. In that regard, the book stresses the ability of eIoT to add sensing, decision-making, and actuation capabilities to millions or perhaps even billions of interacting "smart" devices. With such a large scale transformation composed of so many independent actions, the book also organizes the discussion into a single multi-layer energy management control loop structure. Consequently, much attention is given to not just network-enabled physical devices but also communication networks, distributed control & decision making, and finally technical architectures and standards. Having gone into the detail of these many simultaneously developing technologies, the book returns to how these technologies when integrated form new applications for transactive energy. In that regard, it highlights several eIoT-enabled energy management use cases that fundamentally change the relationship between end users, utilities, and grid

operators. Consequently, the book discusses some of the emerging applications for utilities, industry, commerce, and residences. The book concludes that these IoT applications will transform today's grid into one that is much more responsive, dynamic, adaptive and flexible. It also concludes that this transformation will bring about new challenges and opportunities for the cyber-physical-economic performance of the grid and the business models of its increasingly growing number of participants and stakeholders.

David Vizard's How to Port and Flow Test Cylinder Heads David Vizard 2012 Porting heads is an art and science. It takes a craftsman's touch to shape the surfaces of the head for the optimal flow characteristics and the best performance. Porting demands the right tools, skills, and application of knowledge. Few other engine builders have the same level of knowledge and skill porting engine heads as David Vizard. All the aspects of porting stock as well as aftermarket heads in aluminum and cast-iron constructions are covered. Vizard goes into great depth and detail on porting aftermarket heads. Starting with the basic techniques up to more advanced techniques, you are shown how to port iron and aluminum heads as well as benefits of hand and CNC porting. You are also shown how to build a high-quality flow bench at home so you can test your work and obtain professional results. Vizard shows how to optimize flow paths through the heads, past the valves, and into the combustion chamber. The book covers blending the bowls, a basic porting procedure, and also covers pocket porting, porting the intake runners, and many advanced procedures. These advanced procedures include unshrouding valves, porting a shortside turn from the floor of the port down toward the valve seat, and developing the ideal port area and angle. All of these changes combine to produce optimal flow velocity through the engine for maximum power.

Technology, Adaptation, and Exports Vandana Chandra 2006-01-01 The literature on technological change and growth has mainly used econometric models to establish that factors such as the degree of openness, skills, research and development expenditures, number of patents etc. are critical determinants of innovation and its effect on growth. However, this approach fails to explain the role of institutions and policies that created the environment for innovation.

Using 10 case studies from developing countries, this book examines how governments fostered technological adaptation through public-private partnerships to develop world-class exporters in high-growth, non-traditional industries.

Comparison of Differences in Insurance Costs for Passenger Cars, Station Wagons/passenger Vans, Pickups and Utility Vehicles on the Basis of Damage Susceptibility 2001

Automotive Service Tim Gilles 2007-07 Updated to reflect the latest technology in the automotive industry, this book will provide the knowledge and skills needed to successfully inspect, maintain, and repair vehicles of all makes and models. Automotive Service: Inspection, Maintenance, and Repair, 3E begins by introducing readers to a number of automotive career options, shop management basics, plus necessary tools and equipment. The book then progresses to the theories of vehicle systems operations and includes step-by-step procedures for troubleshooting and repairing all major systems of the modern automobile. Updates include coverage of new vehicle technology like EVAP systems, on-board diagnostics and emissions, alternative fuels, and hybrid vehicles, making this book not only comprehensive but also current so that readers can feel confident they are learning the very latest in industry trends and techniques.

Mitsubishi Pickups and Montero, 1983-1996 John Haynes 1996-12-15 All gasoline engines, 2WD and 4WD.

Energy Efficient Solvents for CO2 Capture by Gas-Liquid Absorption Wojciech M. Budzianowski 2016-12-01 This book reviews and characterises promising single-compound solvents, solvent blends and advanced solvent systems suitable for CO2 capture applications using gas-liquid absorption. Focusing on energy efficient solvents with minimal adverse environmental impact, the contributions included analyse the major technological advantages, as well as research and development challenges of promising solvents and solvent systems in various sustainable CO2 capture applications. It provides a valuable source of information for undergraduate and postgraduate students, as well as for chemical engineers and energy specialists.