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Mechanical Properties of Nanocrystalline Materials James C. M. Li 2011-09-02 This book concentrates on both understanding and development of nanocrystalline materials. The original relation that connects grain size and strength, known as the Hall-Petch relation, is studied in the nanometer grain size region. The breakdown of such a relation is a challenge. Why and how to overcome it? Is the dislocation mechanism still opera

Acronyms Abbreviations & Terms - A Capability Assurance Job Aid 2005 The FAAT List is not designed to be an authoritative source, merely a handy reference. Inclusion recognizes terminology existence, not legitimacy.

Entries known to be obsolete are included because they may still appear in extant publications and correspondence.

Friction and Wear Giovanni Straffelini 2015-04-03 This book introduces the basic concepts of contact mechanics, friction, lubrication, and wear mechanisms, providing simplified analytical relationships that are useful for quantitative assessments. Subsequently, an overview on the main wear processes is provided, and guidelines on the most suitable design solutions for each specific application are outlined. The final part of the text is devoted to a description of the main materials and surface treatments specifically developed for tribological applications and to the presentation of tribological systems of particular engineering relevance. The text is up to date with the latest developments in the field of tribology and provides a theoretical framework to explain friction and wear problems, together with practical tools for their resolution. The text is intended for students on Engineering courses (both bachelor and master degrees) who must develop a sound understanding of friction, wear, lubrication, and surface engineering, and for technicians or professionals who need to solve tribological problems in their work.

A Linguistic History of Arabic Jonathan Owens 2006-05-11 A Linguistic History of Arabic presents a reconstruction of proto-Arabic by the methods of historical-comparative linguistics. It challenges the traditional conceptualization of an old, Classical language evolving into the contemporary Neo-Arabic dialects. Professor Owens combines established comparative linguistic methodology with a careful reading of the classical Arabic sources, such as the grammatical and exegetical traditions. He arrives at a richer and more complex picture of early Arabic language history than is current today and in doing so establishes the basis for a comprehensive, linguistically-based understanding of the history of Arabic. The arguments are set out in a concise, case by case basis, making it accessible to students and scholars of Arabic and Islamic culture, as well as to those studying Arabic and historical linguists.

Lipids and Essential Oils as Antimicrobial Agents Halldor Thormar 2011-02-14 Lipids and essential oils have strong antimicrobial properties — they kill or inhibit the growth of microbes such as bacteria, fungi, or viruses. They are being studied for use in the prevention and treatment of infections, as potential disinfectants, and for their preservative and antimicrobial properties when formulated as pharmaceuticals, in food products, and in cosmetics. Lipids and Essential Oils as Antimicrobial Agents is a comprehensive review of the scientific knowledge in this field. International experts provide summaries on: the chemical and biological properties of lipids and essential oils use of lipids and essential oils in pharmaceuticals, cosmetics and health foods antimicrobial effects of lipids in vivo and in vitro antimicrobial lipids in milk antimicrobial lipids of the skin antibacterial lipids as sanitizers and disinfectants antibacterial, antifungal, and antiviral activities of essential oils antimicrobial lipids in milk antimicrobial lipids of the skin antibacterial lipids as sanitizers and disinfectants antibacterial, antifungal, and antiviral activities of essential oils Lipids and Essential Oils as Antimicrobial Agents is an essential guide to this important topic for researchers and advanced students in academia and research working in pharmaceutical,

cosmetic and food sciences, biochemistry and natural products chemistry, microbiology; and for health care scientists and professionals working in the fields of public health and infectious diseases. It will also be of interest to anyone concerned about health issues and particularly to those who are conscious of the benefits of health food and natural products.

ACTEX Study Manual for SOA Exam P Samuel A. Broverman 2021

Problems In Solid State Physics With Solutions Han Fuxiang 2011-10-31 This book provides a practical approach to consolidate one's acquired knowledge or to learn new concepts in solid state physics through solving problems. It contains 300 problems on various subjects of solid state physics. The problems in this book can be used as homework assignments in an introductory or advanced course on solid state physics for undergraduate or graduate students. It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics. In practice, it is more fascinating and rewarding to learn a new idea or technique through solving challenging problems rather than through reading only. In this aspect, this book is not a plain collection of problems but it presents a large number of problem-solving ideas and procedures, some of which are valuable to practitioners in condensed matter physics.

ACTEX SOA Exam SRM Runhuan Feng 2018

NATO Glossary of Terms and Definitions North Atlantic Treaty Organization 2013-03-08 NATO Glossary of terms and definitions (English and French). Listing terms of military significance and their definitions for use in NATO.

Permanent Magnet Motor Technology Jacek F. Gieras 2009-08-25 The importance of permanent magnet (PM) motor technology and its impact on electromechanical drives has grown exponentially since the publication of the bestselling second edition. The PM brushless motor market has grown considerably faster than the overall motion control market. This rapid growth makes it essential for electrical and electromechanical engineers and students to stay up-to-date on developments in modern electrical motors and drives, including their control, simulation, and CAD. Reflecting innovations in the development of PM motors for electromechanical drives, *Permanent Magnet Motor Technology: Design and Applications, Third Edition* demonstrates the construction of PM motor drives and supplies ready-to-implement solutions to common roadblocks along the way. This edition supplies fundamental equations and calculations for determining and evaluating system performance, efficiency, reliability, and cost. It explores modern computer-aided design of PM motors, including the finite element approach, and explains how to select PM motors to meet the specific requirements of electrical drives. The numerous examples, models, and diagrams provided in each chapter facilitate a lucid understanding of motor operations and characteristics. This 3rd edition of a bestselling reference has been thoroughly revised to include: Chapters on high speed motors and micromotors Advances in permanent magnet motor technology Additional numerical examples and illustrations An increased effort to bridge the gap between theory and industrial applications Modified research results The growing global trend toward energy conservation makes it quite possible that the era of the PM brushless motor drive is just around the corner. This reference book will give engineers, researchers, and graduate-level students the comprehensive understanding required to develop the breakthroughs that will push this exciting technology to the forefront.

Quantitative Methods for Business (Book Only) David R. Anderson 2012-02-15 Develop a strong conceptual understanding of the role that quantitative methods play in today's decision-making process. Written for the non-mathematician, this applications-oriented text introduces today's many quantitative methods, how they work, and

how decision makers can most effectively apply and interpret data. A strong managerial orientation motivates while actual examples illustrate situations where quantitative methods make a difference in decision making. A strong Problem-Scenario Approach helps you understand and apply mathematical concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Computer Vision and Robotics Jagdish Chand Bansal 2022-03-14 This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7–8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians, industry, and policy makers.

Death is Wrong Gennady Stolyarov II 2013-12-11 If you have ever asked, “Why do people have to die?” then this book is for you. The answer is that no, death is not necessary, inevitable, or good. In fact, death is wrong. Death is the enemy of us all, to be fought with medicine, science, and technology. This book introduces you to the greatest, most challenging, most revolutionary movement to radically extend human lifespans so that you might not have to die at all. You will learn about some amazingly long-lived plants and animals, recent scientific discoveries that point the way toward lengthening lifespans in humans, and simple, powerful arguments that can overcome the common excuses for death. If you have ever thought that death is unjust and should be defeated, you are not alone. Read this book, and become part of the most important quest in human history. This book was written by the philosopher and futurist Gennady Stolyarov II and illustrated by the artist Wendy Stolyarov. It is here to show you that, no matter who you are and what you can do, there is always a way for you to help in humanity’s struggle against death. "I thought the book was fun to read and important in what it tries to accomplish." - Zoltan Istvan, Psychology Today

Membrane Biological Reactors Faisal I. Hai 2013-11-01 In recent years the MBR market has experienced unprecedented growth. The best practice in the field is constantly changing and unique quality requirements and management issues are regularly emerging. *Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse* comprehensively covers the salient features and emerging issues associated with the MBR technology. The book provides thorough coverage starting from biological aspects and fundamentals of membranes, via modeling and design concepts, to practitioners’ perspective and good application examples. *Membrane Biological Reactors* focuses on all the relevant emerging issues raised by including the latest research from renowned experts in the field. It is a valuable reference to the academic and professional community and suitable for undergraduate and postgraduate teaching in Environmental Engineering, Chemical Engineering and Biotechnology. Editors: Faisal I. Hai, University of Wollongong, Australia Kazuo Yamamoto, University of Tokyo, Japan Chung-Hak Lee, Seoul National University, Korea.

Dictionary of Acronyms and Technical Abbreviations Jakob Vlietstra 2012-12-06 This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

Pharmacology: Prep Manual for Undergraduates Shanbhag 2008

Department of Defense Dictionary of Military and Associated Terms 1973

Mechanochemistry in Nanoscience and Minerals Engineering Peter Balaz 2008-10-20 Mechanochemistry as a

branch of solid state chemistry enquires into processes which proceed in solids due to the application of mechanical energy. This provides a thorough, up to date overview of mechanochemistry of solids and minerals. Applications of mechanochemistry in nanoscience with special impact on nanogeoscience are described. Selected advanced identification methods, most frequently applied in nanoscience, are described as well as the advantage of mechanochemical approach in minerals engineering. Examples of industrial applications are given.

Mechanochemical technology is being applied in many industrial fields: powder metallurgy (synthesis of nanometals, alloys and nanocompounds), building industry (activation of cements), chemical industry (solid waste treatment, catalyst synthesis, coal ashes utilization), minerals engineering (ore enrichment, enhancement of processes of extractive metallurgy), agriculture industry (solubility increase of fertilizers), and pharmaceutical industry (improvement of solubility and bioavailability of drugs). This reference serves as an introduction to newcomers to mechanochemistry, and encourages more experienced researchers to broaden their knowledge and discover novel applications in the field.

Pain in Children Gary A. Walco 2008-09-11 Advances over the past two decades have enabled physicians to revolutionize the manner in which they can assess and manage children’s pain. Thirty years ago it was thought that young children did not experience pain and therefore it was not necessary to treat it. Today professionals from a variety of disciplines have contributed data that have revolutionized medical perspectives. Technological advances now enable doctors to treat acute pain in fetuses, premature neonates, infants, toddlers, children, and adolescents with increasing precision and efficacy. Research highlighting the context of chronic pain has moved them away from a mind-body dichotomy and toward an integrated, holistic perspective that leads to substantial improvement in children’s adaptive functioning as well as subjective discomfort. This book covers these topics and is intended for anyone who provides medical care to children. Each chapter provides an overview of the problem, followed by a "hands on" description of relevant assessment and intervention strategies. The role of the primary care practitioner is highlighted, both as a front-line resource as well as a consumer of specialized pediatric pain treatment services. Each chapter ends with a summary and specific bullet points highlighting the most central elements, making for quick and easy reference.

Fundamentals of Electrochemical Corrosion Ele Eugene Stansbury 2000-01-01 Covering the essential aspects of the corrosion behavior of metals in aqueous environments, this book is designed with the flexibility needed for use in courses for upper-level undergraduate and graduate students, for concentrated courses in industry, for individual study, and as a reference book.

CRC Handbook of Metal Etchants Perrin Walker 1990-12-11 This publication presents cleaning and etching solutions, their applications, and results on inorganic materials. It is a comprehensive collection of etching and cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing...waxes, plastics, and lacquers for example. It is useful to individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines, work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.

Ashanti Proverbs Robert Sutherland Rattray 1916

America's Original Sin Jim Wallis 2016-01-12 America's problem with race has deep roots, with the country's foundation tied to the near extermination of one race of people and the enslavement of another. Racism is truly our nation's original sin. "It's time we right this unacceptable wrong," says bestselling author and leading Christian activist Jim Wallis. Fifty years ago, Wallis was driven away from his faith by a white church that considered dealing with racism to be taboo. His participation in the civil rights movement brought him back when he discovered a faith that commands racial justice. Yet as recent tragedies confirm, we continue to suffer from the legacy of racism. The old patterns of white privilege are colliding with the changing demographics of a diverse nation. The church has been slow to respond, and Sunday morning is still the most segregated hour of the week. In *America's Original Sin*, Wallis offers a prophetic and deeply personal call to action in overcoming the racism so ingrained in American society. He speaks candidly to Christians--particularly white Christians--urging them to cross a new bridge toward racial justice and healing. Whenever divided cultures and gridlocked power structures fail to end systemic sin, faith communities can help lead the way to grassroots change. Probing yet positive, biblically rooted yet highly practical, this book shows people of faith how they can work together to overcome the embedded racism in America, galvanizing a movement to cross the bridge to a multiracial church and a new America.

Emerging Topics in Physical Virology Peter G. Stockley 2010 *Emerging Topics in Physical Virology* is a state-of-the-art account of recent advances in the experimental analysis and modeling of structure, function and dynamics of viruses. It is the first interdisciplinary book that integrates a review of relevant experimental techniques, such as cryo-electron microscopy, atomic force microscopy and mass spectrometry with the latest results on the biophysical and mathematical modeling of viruses. The book comprehensively covers the structure and physical properties of the protein envelopes that encapsulate and hence protect the delicate viral genome, their assembly and disassembly, the organization of the viral genome, infection, evolution, as well as applications of viruses in Biomedical Nanotechnology. It is an essential primer for scientists working in all aspects of virology, including the increasing use of viruses and virus-like particles in bio- and nano-technology. Its review style makes it moreover suitable for non-experts as an introduction into this exciting research area.

Modern Plastics Handbook Charles A. Harper 2000-03-24 State-of-the-art guide to plastic product design, manufacture and application. Edited by Charles A. Harper and sponsored by Modern Plastics, the industry's most prestigious trade magazine, *Modern Plastics Handbook* packs a wealth of up-to-date knowledge about plastics processes, forms and formulations, design, equipment, testing and recycling. This A-to-Z guide keeps you on top of:

*Properties and performance of thermoplastics, polymer blends...thermosets, reinforced plastics and composites...natural and synthetic elastomers *Processes from extrusion, injection and blow molding to thermoforming, foam processing, hand lay-up and filament winding, and many, many more *Fabricating...post-production finishing and bonding...coatings and finishes, subjects difficult to find treated elsewhere in print *More!

Probability Essentials Jean Jacod 2012-12-06 This introduction can be used, at the beginning graduate level, for a one-semester course on probability theory or for self-direction without benefit of a formal course; the measure theory needed is developed in the text. It will also be useful for students and teachers in related areas such as finance theory, electrical engineering, and operations research. The text covers the essentials in a directed and lean way with 28 short chapters, and assumes only an undergraduate background in mathematics. Readers are taken right up to a knowledge of the basics of Martingale Theory, and the interested student will be ready to continue with the study of more advanced topics, such as Brownian Motion and Ito Calculus, or Statistical Inference.

Design for Control of Projectile Flight Characteristics United States. Army Materiel Command 1966

An Introduction to the Languages of the World Anatole Lyovin 2017 Unique in scope, *An Introduction to the Languages of the World* introduces linguistics students to the variety of world's languages. Students will gain

familiarity with concepts such as sound change, lexical borrowing, diglossia, and language diffusion, and the rich variety of linguistic structure in word order, morphological types, grammatical relations, gender, inflection, and derivation. It offers the opportunity to explore structures of varying and fascinating languages even with no prior acquaintance. A chapter is devoted to each of the world's continents, with in-depth analyses of representative languages of Europe, Asia, Africa, Oceania, and America, and separate chapters cover writing systems and pidgins and creoles. Each chapter contains exercises and recommendations for further reading. New to this edition are eleven original maps as well as sections on sign languages and language death and revitalization. For greater readability, basic language facts are now organized in tables, and language samples follow international standards for phonetic transcription and word-by-word glossing. There is an instructor's manual available for registered instructors on the book's companion website.

Introduction to Physical Metallurgy Sidney Avner 1990-06-01

Thermal Analysis of Materials Robert Speyer 1993-09-16 Discussing the design and optimum use of thermal analysis instrumentation for materials' property measurement, this work details how the instruments work, what they measure, potential pitfalls and the fitting of experimental results to theoretical models. It presents a tutorial on writing computer programs for data manipulation, advanced thermoanalytical methods and case studies.

Fundamentals of Metallurgy S Seetharaman 2005-10-10 As product specifications become more demanding, manufacturers require steel with ever more specific functional properties. As a result, there has been a wealth of research on how those properties emerge during steelmaking. *Fundamentals of metallurgy* summarises this research and its implications for manufacturers. The first part of the book reviews the effects of processing on the properties of metals with a range of chapters on such phenomena as phase transformations, types of kinetic reaction, transport and interfacial phenomena. Authors discuss how these processes and the resulting properties of metals can be modelled and predicted. Part two discusses the implications of this research for improving steelmaking and steel properties. With its distinguished editor and international team of contributors, *Fundamentals of metallurgy* is an invaluable reference for steelmakers and manufacturers requiring high-performance steels in such areas as automotive and aerospace engineering. It will also be useful for those dealing with non-ferrous metals and alloys, material designers for functional materials, environmentalists and above all, high technology industries designing processes towards materials with tailored properties. Summarises key research and its implications for manufacturers Essential reading for steelmakers and manufacturers Written by leading experts from both industry and academia

Actuaries' Survival Guide Fred Szabo 2012-05-21 What would you like to do with your life? What career would allow you to fulfill your dreams of success? If you like mathematics-and the prospect of a highly mobile, international profession-consider becoming an actuary. Szabo's *Actuaries' Survival Guide*, Second Edition explains what actuaries are, what they do, and where they do it. It describes exciting combinations of ideas, techniques, and skills involved in the day-to-day work of actuaries. This second edition has been updated to reflect the rise of social networking and the internet, the progress toward a global knowledge-based economy, and the global expansion of the actuarial field that has occurred since the first edition. Includes details on the new structures of the Society of Actuaries' (SOA) and Casualty Actuarial Society (CAS) examinations, as well as sample questions and answers Presents an overview of career options, includes profiles of companies & agencies that employ actuaries. Provides a link between theory and practice and helps readers understand the blend of qualitative and quantitative skills and knowledge required to succeed in actuarial exams Includes insights provided by over 50 actuaries and actuarial students about the actuarial profession Author Fred Szabo has directed the Actuarial Co-op Program at Concordia for over fifteen years

Auditorium Acoustics and Architectural Design Michael Barron 2009-09-28 Modern concert halls and opera houses

are now very specialized buildings with special acoustical characteristics. With new contemporary case-studies, this updated book explores these characteristics as an important resource for architects, engineers and auditorium technicians. Supported by over 40 detailed case studies and architectural drawings of 75 auditoria at a scale of 1:500, the survey of each auditorium type is completed with a discussion of current best practice to achieve optimum acoustics.

A/S/M SOA Exam IFM Abraham Weishaus 2018

Study Guide and Solutions Manual for Exam P of the Society of Actuaries Thomas McGannon 2007

Achieving Your Pinnacle: A Career Guide for Actuaries Tom Miller 2013 Tom Miller recognized the need to write this book a few years ago, after reviewing postings on popular discussion pages frequented by actuaries. He was surprised and troubled by the magnitude of misinformation posted on these websites. Clearly actuaries and actuarial students posting this information are only trying to be helpful to one another, but they frequently lack the necessary experience and expertise to offer sound advice. Tom seeks to provide readers of his career guide with valuable insights regarding the actuarial employment market, covering topics such as choice of product specialization, how to conduct effective job searches, switching successfully from insurance to consulting and inside tips on what clients are really looking for when they interview you. Armed with deep knowledge and a unique perspective on the actuarial profession, Tom expects that this book will be a resource that will help you make better career decisions and "Achieve Your Pinnacle."

Civil Jet Aircraft Design Lloyd R. Jenkinson 1999 There is an increasing emphasis in aeronautical engineering on design. Concentrating on large scale commercial jet aircraft, this textbook reflects areas of growth in the aircraft industry and the procedures and practices of civil aviation design.

Stainless Steels for Design Engineers Michael F. McGuire 2008 The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately 30,000,000 tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use stainless steel to make sound technical judgments about which stainless steels to use and how to use them.

Derivatives Markets Robert Lynch McDonald 2003 **Derivatives Markets** ROBERT L. MCDONALD Northwestern University Derivatives tools and concepts permeate modern finance. An authoritative treatment from a recognized expert, *Derivatives Markets* presents the sometimes challenging world of futures, options, and other derivatives in

an accessible, cohesive, and intuitive manner. Some features of the book include: *Insights into pricing models. Formulas are motivated and explained intuitively. Links between the various derivative instruments are highlighted. Students learn how derivatives markets work, with an emphasis on the role of competitive market-makers in determining prices. *A tiered approach to mathematics. Most of the book assumes only basic mathematics, such as solving two equations in two unknowns. The last quarter of the book uses calculus, and provides an introduction to the concepts and pricing techniques that are widely used in derivatives today. *An applied emphasis. Chapters on corporate applications, financial engineering, and real options illustrate the broad applicability of the tools and models developed in the book. A rich array of examples bolsters the theory. *A computation-friendly approach. Excel spreadsheets. Visual Basic code for the pricing functions is included, and can be modified for your own use. **ADVANCE PRAISE FROM THE MARKET** *Derivatives Markets* provides a comprehensive yet in-depth treatment of the theory, institutions, and applications of derivatives. McDonald is a master teacher and researcher in the field and makes the reading effortless and exciting with his intuitive writing style and the liberal use of numerical examples and cases sprinkled throughout...(It) is a terrific book, and I highly recommend it. Geroge Constantinides University of Chicago ...the most appealing part of the writing is how replete the text is with intuition and how effortless it is woven throughout. Ken Kavajecz University of Pennsylvania ...a wonderful blend of the economics and mathematics of derivatives pricing. After reading the book, the student will have not only an understanding of derivatives pricing models but also of derivatives markets...The technical development...brings the student/reader remarkably close to state of the art with carefully chosen and developed mathematical machinery.

Advances in Biogas Desulfurization Martín Ramírez 2020-05-12 Global concern about climate change caused by the exploitation of fossil fuels is encouraging the use of renewable energies. For instance, the European Union aims to be climate neutral by 2050. Biogas is an interesting renewable energy source due to its high calorific value. Today, biogas is mainly used for the production of electricity and heat by a combined heat and power engine. However, before its valorization, biogas needs to be desulfurized (H₂S removal) to avoid corrosion and sulfur oxides emissions during its combustion. Biogas can be upgraded (CO₂ removal) and used as vehicle fuel or injected into the natural gas grid. In the last 15 years, significant advances have occurred in the development of biological desulfurization processes. In this book with five chapters, the reader can find some of the latest advances in the biogas desulfurization and an overview of the state-of-the-art research. Three of them are research studies and two are reviews concerning the current state of biogas desulfurization technologies, economic analysis of alternatives, and the microbial ecology in biofiltration units. Biogas desulfurization is considered to be essential by many stakeholders (biogas producers, suppliers of biogas upgrading devices, gas traders, researchers, etc.) all around the world.