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[Green Technologies and Sustainable Development in Construction](#) Jan 27 2020 Collection of selected, peer reviewed papers from the 3rd International Conference on Green Buildings Technologies and Materials (GBTM 2013), December 21?22, 2013, Kuala Lumpur, Malaysia. The 75 papers are grouped as follows: Chapter 1: Green Building and Energy Saving Technologies, Chapter 2: Green Building Materials and Constructional Structures, Chapter 3: Urban Planning and Architectural Environment Engineering.

[Recent Highlights in Advanced Materials](#) May 11 2021 Collection of selected, peer reviewed papers from the 2nd International Congress on Advanced Materials (AM 2013), May 16-19, 2013, Zhenjiang, China. The 110 papers are grouped as follows: Chapter 1: Nano Materials; Chapter 2: Polymers; Chapter 3: Composites; Chapter 4: Biomaterials and Tissues; Chapter 5: Green Materials; Chapter 6: Optical and Electronic Materials; Chapter 7: Superconductive and Magnetic Materials; Chapter 8: Structural and Constructional Materials; Chapter 9: Other Topics.

[Mechanics of Materials Labs with SolidWorks Simulation](#) 2013 Sep 15 2021 This book is designed as a software-based lab book to complement a standard textbook in a mechanics of material course, which is usually taught in undergraduate courses. This book can also be used as an auxiliary workbook in a CAE or Finite Element Analysis course for undergraduate students. Each book comes with a disc containing video demonstrations, a quick introduction to SolidWorks, and all the part files used in the book. This textbook has been carefully developed with the understanding that CAE software has developed to a point that it can be used as a tool to aid students in learning engineering ideas, concepts and even formulas. These concepts are demonstrated in each section of this book. Using the graphics-based tools of SolidWorks Simulation can help reduce the dependency on mathematics to teach these concepts substantially. The contents of this book have been written to match the contents of most mechanics of materials textbooks. There are 14 chapters in this book. Each chapter is designed as one week's workload, consisting of 2 to 3 sections. Each section is designed for a student to follow the exact steps in that section and learn a concept or topic of mechanics of materials. Typically, each section takes 15-40 minutes to complete the exercises. Each copy of this book comes with a disc containing videos that demonstrate the steps used in each section of the book, a 121 page introduction to Part and Assembly Modeling with SolidWorks in PDF format, and all the files readers may need if they have any trouble. The concise introduction to SolidWorks pdf is designed for those students who have no experience with SolidWorks and want to feel more comfortable working on the exercises in this book. All of the same content is available for download on the book's companion website.

[Advanced Materials, Synthesis, Development and Application](#) Aug 14 2021 Collection of selected, peer reviewed papers from the X International Conference Prospects of Fundamental Sciences Development (PFSD-2013), April 23-26, 2013, Tomsk, Russia. The 52 papers are grouped as follows: I. Diagnostics and Engineering of Novel Materials; II. Chemistry and Physics of Materials Surface.

[Selected Papers from the 5th International Symposium on Mycotoxins and Toxigenic Moulds: Challenges and Perspectives](#) Nov 24 2019 This book is a printed edition of the Special Issue "Selected Papers from the 5th International Symposium on Mycotoxins and Toxigenic Moulds: Challenges and Perspectives" that was published in Toxins

[Advanced Materials Research III](#) Jul 13 2021 With the rapid development of industry and information technology, researchers in all fields begin to discuss some new ideas connected with materials science and manufacturing technology. The collection covers topics of current interest in material science. The papers are grouped as follows: Chapter 1: Novel Composite Materials and their Behaviour; Chapter 2: Advances in Machining and Materials Technology; Chapter 3: Research Trends in Nanotechnology and Nanomaterials; Chapter 4: Electronic, Opto-electronic, Photonic and Thermoelectric Materials and Devices; Chapter 5: Advances in Civil Engineering Materials and Constructions; Chapter 6: Advances in Welding Technology; Chapter 7: Corrosion Protection; Chapter 8: Analysis of Pipes and Structures; Chapter 9: Characterization of Materials and Computational Material Science; Chapter 10: Advances in Dielectric Materials; Chapter 11: Miscellaneous Research Topics.

[Issues in Electronic Circuits, Devices, and Materials: 2013 Edition](#) Jun 24 2022 Issues in Electronic Circuits, Devices, and Materials: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Microwave Research. The editors have built Issues in Electronic Circuits, Devices, and Materials: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Microwave Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Electronic Circuits, Devices, and Materials: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed

sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

2013 International Conference on Process Equipment, Mechatronics Engineering and Material Science Jan 19 2022 Collection of selected, peer reviewed papers from the 2013 International Conference on Process Equipment, Mechatronics Engineering and Material Science (PEME2013), June 15-16, 2013, Wuhan, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 135 papers are grouped as follows: Chapter 1: Process Equipment; Chapter 2: Mechatronics, Control and Automation; Chapter 3: Material Engineering and Technologies of Material Processing; Chapter 4: Related Themes.

Trends in Condensed Matter and Materials Science Mar 09 2021 NTPMS - 13, National Conference on New Trends in Physics and Material Science, a conference of national level focuses mainly on the materials science aspect with some other area of physics such as space and atmospheric physics.

Characterization of Minerals, Metals, and Materials 2013 Oct 28 2022 This collection of proceedings from one of the most popular TMS symposia explores the current progress in the characterization of materials. Addressing technologies, applications, and innovative research, these papers cover definitions of ferrous and nonferrous metals and alloys, minerals, advanced and soft materials, and inorganic materials. Extraction and environmental applications, as well as surface, joint, and processing of metals. This is a valuable reference for scientists and engineers working with materials in the minerals, metals, and materials industry.

Advances in Materials, Processing and Manufacturing Nov 17 2021 This book is a collection of peer reviewed papers presented under Symposium of Materials and Metallurgy in the 13th International Conference on Quality in Research (QiR) 2013 held in Yogyakarta, Indonesia, June 25-28 2013. This special issue is devoted as useful dissemination to serve the need for exchange the knowledge, experience, review of the progress and recent developments in the broad field of materials engineering and manufacturing. Studies presented in this book cover the following topics: (i) Advanced and Composite Materials; (ii) Polymer and Ceramic Materials; (iii) Materials Manufacturing and Processes; (iv) Corrosion and Degradation of Materials; and (v) Extraction of Materials.

THERMEC 2013 Supplement Oct 24 2019 THERMEC proceedings is collection of research papers from active /known researchers in materials science /engineering , manufacturing, processing and applications of advanced materials ranging from ferrous and non ferrous materials to biomaterials, nanomaterials, metallic glasses, fuel cells, hydrogen storage technologies, surface engineering, welding and joining, modeling & simulation and intelligent & smart materials/ processes.

Systems biology and ecology of microbial mat communities Jun 19 2019 Microbial mat communities consist of dense populations of microorganisms embedded in exopolymers and/or biomineralized solid phases, and are often found in mm-cm thick assemblages, which can be stratified due to environmental gradients such as light, oxygen or sulfide. Microbial mat communities are commonly observed under extreme environmental conditions, deriving energy primarily from light and/or reduced chemicals to drive autotrophic fixation of carbon dioxide. Microbial mat ecosystems are regarded as living analogues of primordial systems on Earth, and they often form perennial structures with conspicuous stratifications of microbial populations that can be studied in situ under stable conditions for many years. Consequently, microbial mat communities are ideal natural laboratories and represent excellent model systems for studying microbial community structure and function, microbial dynamics and interactions, and discovery of new microorganisms with novel metabolic pathways potentially useful in future industrial and/or medical applications. Due to their relative simplicity and organization, microbial mat communities are often excellent testing grounds for new technologies in microbiology including micro-sensor analysis, stable isotope methodology and modern genomics. Integrative studies of microbial mat communities that combine modern biogeochemical and molecular biological methods with traditional microbiology, macro-ecological approaches, and community network modeling will provide new and detailed insights regarding the systems biology of microbial mats and the complex interplay among individual populations and their physicochemical environment. These processes ultimately control the biogeochemical cycling of energy and/or nutrients in microbial systems. Similarities in microbial community function across different types of communities from highly disparate environments may provide a deeper basis for understanding microbial community dynamics and the ecological role of specific microbial populations. Approaches and concepts developed in highly-constrained, relatively stable natural communities may also provide insights useful for studying and understanding more complex microbial communities.

Advanced Research on Information Science, Automation and Material System III Oct 04 2020 Collection of selected, peer reviewed papers from the 2013 3rd International Conference on Information Science, Automation and Material System (ISAM 2013), April 13-14, 2013, Guangzhou, China. The 77 papers are grouped as follows: Chapter 1: Research on Material Science, Processing and Technologies; Chapter 2: Geology, Extraction and Processing of Mineral Resource: Research and Technologies; Chapter 3: Mechanics of Materials and Applied Mechanics; Chapter 4: Research on Information System and Automation; Chapter 5: Related Topics.

Advances on Materials Engineering Jul 25 2022 Collection of selected, peer reviewed papers from the 2013 International Conference on Materials Engineering (ICMEN2013), May 17-19, 2013, Nanjing, China. The 46 papers are grouped as follows: Chapter 1: Reinforced Materials, Structural Materials and Engineering; Chapter 2: Concrete and Cement, Mortars; Chapter 3: Materials Processing Technology; Chapter 4: Energy, Electric and Optics Materials; Chapter 5: Nanomaterials and Nanotechnologies; Chapter 6: Bio- and Environment Materials; Chapter 7: Thin Films; Chapter 8: Polymers, Alloys and Other Materials Technologies.

ECRM2013-Proceedings of the 12th European Conference on Research Methods Feb 26 2020 Complete proceedings of the 13th European Conference on Research Methodology for Business and Management Studies ECRM 2013 PRINT version Published by Academic Conferences and Publishing International Limited.

Serving LGBTQ Teens Aug 22 2019 This book offers the librarian a practical guide to library service to LGBTQ teens – from collection development, understanding terminology, dealing with censorship issues, programming and outreach, readers' advisory, and even to creating welcoming displays, librarians will find the tools they need to offer exceptional services for LGBTQ teens.

Issues in Structural and Materials Engineering: 2013 Edition Sep 27 2022 Issues in Structural and Materials Engineering: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Computer Engineering. The editors have built Issues in Structural and Materials Engineering: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Computer Engineering in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Structural and Materials Engineering: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Applied Physics and Material Science May 31 2020 Collection of selected, peer reviewed papers from the 5th International Science, Social Science, Engineering and Energy Conference (I-SEEC 2013), December 18-20, 2013, Kanchanaburi, Thailand. The 123 papers are grouped as follows: Chapter 1: Applied Physics, Chapter 2: Materials Science and Materials Physics, Chapter 3: Optical Science and Technology.

Advanced Materials and Sports Equipment Design Apr 10 2021 Collection of selected, peer reviewed papers from the 2013 International Conference on Advanced Materials & Sports Equipment Design (AMSED 2013), September 21-23, 2013, Singapore. The 73 papers are grouped as follows: Chapter 1: Materials and Their Application; Chapter 2: Biochemistry and Medicine; Chapter 3: Engineering Research; Chapter 4: Development of Sport Equipment; Chapter 5: Computer Technology in Sports; Chapter 6: Applied Research in Sport.

Advanced Technologies in Manufacturing, Engineering and Materials Dec 18 2021 Collection of selected, peer reviewed papers from the 2013 International Forum on Mechanical and Material Engineering (IFMME 2013), June 13-14, Guangzhou, China. The 406 papers are grouped as follows: Chapter 1: Dynamic Systems, Vibration and Noise, Applied Mechanics; Chapter 2: Design and Modelling in Manufacture, Dynamic Simulation, Machinery and Equipments; Chapter 3: Fluid, Flow Engineering and Control Technology, Aerodynamics, Wind and Heat Engineering; Chapter 4: Vehicle Engineering; Chapter 5: Material Science and Technology; Chapter 6: Material Processing Technology, Forming, Welding and Joint Technologies, Surface and Coating Engineering; Chapter 7: Material Design and Experiment Researches Analysis, Testing and Evaluation; Chapter 8: Advanced Manufacturing Technology and Mechatronics; Chapter 9: Control Technology and Automation Systems; Chapter 10: Sensors, Measurement, Detection and Intelligent Information and Data Processing, Fault Diagnosis; Chapter 11: Communication and Signal Engineering; Chapter 12: Computer and Information Technologies Applications in Industry and Engineering, Electric and Power Engineering Applications; Chapter 13: The Internet of Things Technologies; Chapter 14: Industrial, Management and Education Engineering.

Proceedings of the 2013 International Conference on Material Science and Environmental Engineering-2013 Apr 22 2022 MSEE2013 will provide an excellent international academic forum for sharing knowledge and results in theory, methodology and applications on material science and environmental engineering. In the proceedings, you can learn much more knowledge about the newest research results on material science and advanced materials, material engineering and application, environment protection and sustainable development, and environmental science and engineering all around the world.

Materials Sep 03 2020 Materials: Engineering, Science, Processing and Design, Second Edition, was developed to guide material selection and understanding for a wide spectrum of engineering courses. The approach is systematic, leading from design requirements to a prescription for optimized material choice. This book presents the properties of materials, their origins, and the way they enter engineering design. The book begins by introducing some of the design-limiting properties: physical properties, mechanical properties, and functional properties. It then turns to the materials themselves, covering the families, the classes, and the members. It identifies six broad families of materials for design: metals, ceramics, glasses, polymers, elastomers, and hybrids that combine the properties of two or more of the others. The book presents a design-led strategy for selecting materials and processes. It explains material properties such as yield and plasticity, and presents elastic solutions for common modes of loading. The remaining chapters cover topics such as the causes and prevention of material failure; cyclic loading; fail-safe design; and the processing of materials. * Design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications * Highly visual full color graphics facilitate understanding of materials concepts and properties * Chapters on materials selection and design are integrated with chapters on materials fundamentals, enabling students to see how specific fundamentals can be important to the design process * Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information NEW TO THIS EDITION: "Guided Learning" sections on crystallography, phase diagrams and phase transformations enhance students' learning of these key foundation topics Revised and expanded chapters on durability, and processing for materials properties More than 50 new worked examples placed throughout the text

Advanced Materials and Structures V Nov 05 2020 Collection of selected, peer reviewed papers from the Fifth International Conference on Advanced Materials and Structures (AMS 2013), 24-25 October 2013, Timișoara, Romania. The 56 papers are grouped as follows: Chapter 1: Advanced Materials, Chapter 2: Materials Characterization, Chapter 3: Modern Processing Techniques Keyword: Amorphous and Nanostructured Alloys, Biomaterials, Composites Investigations, Testing, Numerical Methods, Ferrous and Non-Ferrous Alloys, Powder Metallurgy, Rapid Prototyping, Surface Engineering.

Reference Materials in Measurement and Technology Jun 12 2021 The book covers in particular state-of-the-art scientific research about product quality control and related health and environmental safety topics, including human, animal and plant safety assurance issues. These conference proceedings provide contemporary information on the general theoretical, metrological and practical issues of the production and application of reference materials. Reference materials play an integral role in physical, chemical and related type of measurements, ensuring their uniformity, comparability and the validity of quantitative analysis as well as, as a result, the objectivity of decisions concerning the elimination of technical barriers in commercial and economic, scientific and technical and other spheres of cooperation. The book is intended for researchers and practitioners in the field of chemistry, metrologists, technical physics, as well as for specialists in analytical laboratories, or working for companies and organizations involved in the production, distribution and use of reference materials.

Nanotechnology and Material Engineering Research Jul 01 2020 Selected, peer reviewed papers from the 2012 International Conference on Nanotechnology and Future Material Engineering (NFME2013), January 19-20, 2013, Wuhan. The papers are grouped in to two chapters: Chapter 1: Research on Nano-materials and Nanotechnology; Chapter 2: Research on Materials Mechanics and Technologies.

The Eighth China National Conference on Functional Materials and Applications Feb 08 2021 Collection of selected, peer reviewed papers from the Eighth China National Conference on Functional Materials and Applications (NCFMA 2013), August 23-26, 2013, Harbin, China. The 141 papers are grouped as follows: Chapter 1: Metallic Materials and Alloys; Chapter 2: Nanoscale Materials; Chapter 3: Ceramic and Inorganic Functional Materials; Chapter 4: Composite Materials, Aerospace Materials, Film Materials, Coating and Surface Technology; Chapter 5: Environmental Functional Materials and Energy Materials; Chapter 6: Biological, Macromolecule and Organic Functional Materials; Chapter 7: Mechanical, Thermal, Optical, Electric, Magnetic Functional Materials and Properties.

The Aubin Academy: Revit MEP 2013 Apr 29 2020 The Aubin Academy Master Series: Revit® MEP is the ideal book to help readers successfully use Revit MEP. It is a concise manual focused squarely on the rationale and practicality of the Revit MEP Building Information Model (BIM) process. The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools. The goal of each lesson is to help the reader complete their projects successfully. Tools are introduced together in a focused process with a strong emphasis on "why" as well as "how." The text and exercises seek to give the reader a clear sense of the value of the tools, and a clear indication of each tool's potential. The Aubin Academy Master Series: Revit MEP is a resource designed to shorten your learning curve, raise your comfort level, and, most importantly, give you real-life tested practical advice on the usage of the software to create mechanical, electrical, and plumbing designs, and calculations. Empowered with the information within this book, you will have insight into how to use Revit MEP to create coordinated BIM project models and documentation. Includes practical project focused how-to exercises where readers learn by "doing". Focused on MEP Production so readers can learn to create a coordinated BIM model and documentation set. Written by authors with over 75 years of combined real-World architectural and MEP industry experience. Provides "Power User/BIM Manager" tips throughout. Includes free online download of complete dataset of project files to follow along in the exercises.

Advanced Building Construction and Materials 2013 Jul 21 2019 Collection of selected, peer reviewed papers from the 2013 International Conference on Advanced Building Construction and Materials (ABCM 2013), September 26-27, 2013, Košovce, Slovakia. The 56 papers are grouped as follows: Chapter 1: Degradation of Building Materials; Chapter 2: Energy Saving and Ecological Buildings; Chapter 3: Thermal Performance of Building Materials and Constructions; Chapter 4: Aerodynamic Characteristics of Buildings and Construction; Chapter 5: Indoor Air Quality and Air Exchange; Chapter 6: Fire Safety Materials, Spaces and Construction; Chapter 7: Noise Protection; Chapter 8: Daylight Conditions.

Materials, Transportation and Environmental Engineering Sep 22 2019 Selected, peer reviewed papers from the 2013 International Conference on Materials, Transportation and Environmental Engineering (CMTEE 2013), August 21-23, 2013, Taichung, Taiwan

Recent Trends in Nanotechnology and Materials Science Mar 21 2022 This book presents 8 selected reviews from the 2013 International Conference on Manufacturing, Optimization, Industrial and Material Engineering, held in Bandung, Indonesia, 09-10 March 2013. The chapters focus on new advances and research results in the fields of Nanotechnology and Materials Science, from metals to thin films technology.

Science and Engineering of Materials May 23 2022 Collection of selected, peer reviewed papers from the 1st International Conference on Science & Engineering of Materials 2013 (ICoSEM 2013), November 13-14, 2013, Kuala Lumpur, Malaysia. The 61 papers are grouped as follows: Chapter 1: Biomaterials; Chapter 2: Catalytic Materials; Chapter 3: Ceramics; Chapter 4: Coating and Surface Engineering; Chapter 5: Composites; Chapter 6: Electronic and Electronic Packaging; Chapter 7: Concrete and Structural Materials; Chapter 8: Material Modeling and Simulations; Chapter 9: Environmentally Sustainable Materials and Processing; Chapter 10: Materials Conversion And Renewable Energy; Chapter 11: Materials For Energy Storage; Chapter 12: Metal and Alloys; Chapter 13: Nanotechnology; Chapter 14: Polymers.

Advanced Development in Automation, Materials and Manufacturing Dec 06 2020 Collection of selected, peer reviewed papers from the International Conference on Mechatronics, Materials and Manufacturing (ICMMM 2014), August 2-4, 2014 Chengdu, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 145 papers are grouped as follows: Chapter 1: Advanced Materials Engineering and Processing Technologies; Chapter 2: General Mechanical Engineering and Applied Mechanics; Chapter 3: Instrumentation, Measurement Technologies, Analysis and Methodology; Chapter 4: Electrical Engineering and Designing of Circuits; Chapter 5: Mechatronics, Control and Automation of Manufacturing; Chapter 6: Communication, Processing of Signal and Data, Information Technologies; Chapter 7: New Technologies, Methods and Technique in Resources and Civil Engineering; Chapter 8: Product Design and Industrial Engineering

Frontiers in Materials and Minerals Engineering Feb 20 2022 Collection of selected, peer reviewed papers from the 5th Regional Conference on Materials Engineering and the 5th Regional Conference on Natural Resources and Materials 2013 (RCM5 & RCNRM5 2013), January 22-23, 2013, Malaysia. The 43 papers are grouped as follows: Chapter 1: Materials Engineering; Chapter 2: Mineral Resources Engineering.

Inorganic and Environmental Materials Aug 02 2020 A collection of selected, peer reviewed papers from the 2nd International Symposium on Inorganic Environmental Materials (ISIEM 2013), October 27-31, 2013, Rennes, France.

EnCoding Architecture2013 Jan 07 2021

Binders and Materials XI Oct 16 2021 The main topic covered in this volume are chemistry and technology of cement and other hydraulic binders, chemistry and technology of lime and gypsum. One section focuses on organic binders like epoxides etc. and the last one contains topics regarding concrete and application of binders in practice. The volume tries to collect the newest knowledge and progressive trends in the field of binders and building materials. The 72 papers are grouped as follows: Chapter 1: Cement and Binders Based on Cement, Chapter 2: Inorganic Binders, Chapter 3: Organic Binders, Chapter 4: Silicate Materials, Chapter 5: Building Materials, Chapter 6: Other Related Topics.

Materials Engineering and Technology Aug 26 2022 Collection of selected, peer reviewed papers from the 2013 International Conference on Advances and Trends in Engineering Materials and their Applications (ATEMA 2013), October 11-12, 2013, Singapore. The 75 papers are grouped as follows: Chapter 1: Materials Science and Technology; Chapter 2: Engineering Materials and Application; Chapter 3: Manufacturing Technology and Process; Chapter 4: Related Topics.

Robotic Systems: Concepts, Methodologies, Tools, and Applications Mar 29 2020 Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. *Robotic Systems: Concepts, Methodologies, Tools, and Applications* is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

Handbook of Research on Pedagogical Innovations for Sustainable Development Dec 26 2019 Summary: "This book brings together case study examples in the fields of sustainability, sustainable development, and education for sustainable development"--

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