Getting the books jurnal teknologi minyak dan gas bumi now is not type of challenging means. You could not and no-one else going behind books gathering or library or borrowing from your links to read them. This is an agreed easy means to specifically get lead by on-line. This online proclamation jurnal teknologi minyak dan gas bumi can be one of the options to accompany you once having other time.

It will not waste your time. acknowledge me, the e-book will no question ventilate you new matter to read. Just invest tiny grow old to door this on-line publication jurnal teknologi minyak dan gas bumi as without difficulty as evaluation them wherever you are now.

The Prospect of Industry 5.0 in Biomanufacturing - Pau Loke Show - 2021-07-02
This is the first book to present the idea of Industry 5.0 in biomanufacturing and bioprocess engineering, both upstream and downstream. The Prospect of Industry 5.0 in Biomanufacturing details the latest technologies and how they can be used efficiently and explains process analysis from an engineering point of view. In addition, it covers applications and challenges. FEATURES Describes the previous Industrial Revolution, current Industry 4.0, and how new technologies will transition toward Industry 5.0 Explains how Industry 5.0 can be applied in biomanufacturing Demonstrates new technologies catered to Industry 5.0 Uses worked examples related to biological systems This book enables readers in industry and academia working in the biomanufacturing engineering sector to understand current trends and future directions in this field.

Membrane Technology for Water and Wastewater Treatment, Energy and Environment - A.F. Ismail - 2016-03-16
Realizing that water, energy and food are the three pillars to sustain the growth of human population in the future, this book deals with all the above aspects with particular emphasis on water and energy. In particular, the book addresses applications of membrane science and technology for water and wastewater treatment, energy and environment.

This e-book is a compilation of 170 articles.
Proceedings of Mechanical Engineering Research Day 2020 - Mohd Fadzli Bin Abdollah - 2020-12-01
This e-book is a compilation of 170 articles presented at the 7th Mechanical Engineering Research Day (MERD’20) - Kampus Teknologi UTeM (virtual), Melaka, Malaysia on 16 December 2020.

CARe - Mohd Fadzli Bin Abdollah - 2014-10-09
This book is a compilation of Researcher Profiles from Centre for Advanced Research on Energy (CARe), Universiti Teknikal Malaysia Melaka.

Membrane Characterization - Nidal Hilal - 2017-02-18
Membrane Characterization provides a valuable source of information on how membranes are characterized, an extremely limited field that is confined to only brief descriptions in various technical papers available online. For the first time, readers will be able to understand the importance of membrane characterization, the techniques required, and the fundamental theory behind them. This book focuses on characterization techniques that are normally used for membranes prepared from polymeric, ceramic, and composite materials. Features specific details on many membrane characterization techniques for various membrane materials of industrial and academic interest Contains examples of international best practice techniques for the evaluation of several membrane parameters, including pore size, charge, and fouling Discusses various membrane models more suitable to a specific application Provides examples of ab initio calculations for the design, optimization, and scale-up of processes based on characterization data

Polyextremophiles - Joseph Seckbach - 2013-05-13
Many Microorganisms and some macro-organisms can live under extreme conditions. For example, high and low temperature, acidic and alkaline conditions, high salt areas, high pressure, toxic compounds, high level of ionizing radiation, anoxia and absence of light, etc. Many organisms inhabit environments characterized by more than one form of stress (Polyextremophiles). Among them are those who live in hypersaline and alkaline, hot and acidic, cold/hot and high hydrostatic pressure, etc. Polyextremophiles found in desert regions have to copy with intense UV irradiation and desiccation, high as well as low temperatures, and low availability of water and nutrients. This book provides novel results of application to polyextremophiles research ranging from nanotechnology to synthetic biology to the origin of life and beyond.
Polyextremophiles found in desert regions have to cope with intense UV irradiation and desiccation, high as well as low temperatures, and low availability of water and nutrients. This book provides novel results of application to polyextremophiles research ranging from nanotechnology to synthetic biology to the origin of life and beyond.

**Ehrlich's Geomicrobiology** - Henry Lutz
Ehrlich - 2015-10-15
Advances in geomicrobiology have progressed at an accelerated pace in recent years. Ehrlich's Geomicrobiology, Sixth Edition surveys various aspects of the field, including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels. Unlike the fifth edition, the sixth includes many expert contributors.

**Membrane Processes** - S. Sridhar - 2018-12-18
Separation processes are challenging steps in any process industry for isolation of products and recycling of reactants. Membrane technology has shown immense potential in separation of liquid and gaseous mixtures, effluent treatment, drinking water purification and solvent recovery. It has found endless popularity and wide acceptance for its small footprint, higher selectivity, scalability, energy saving capability and inherent ease of integration into other unit operations. There are many situations where the target component cannot be separated by distillation, liquid extraction, and evaporation. The different membrane processes such as pervaporation, vapor permeation and membrane distillation could be used for solving such industrial bottlenecks. This book covers the entire array of fundamental aspects, membrane synthesis and applications in the chemical process industries (CPI). It also includes various applications of pervaporation, vapor permeation and membrane distillation in industrially and socially relevant problems including separation of azeotropic mixtures, close-boiling compounds, organic-organic mixtures, effluent treatment along with brackish and seawater desalination, and many others. These processes can also be applied for extraction of small quantities of value-added compounds such as flavors and fragrances and selective removal of hazardous impurities, viz., volatile organic compounds (VOCs) such as vinyl chloride, benzene, ethyl benzene and toluene from industrial effluents. Including case studies, this is a must-have for any process or chemical engineer working in the industry today. Also valuable as a learning tool, students and professors in chemical engineering, chemistry, and process engineering will benefit greatly from the groundbreaking new processes and technologies described in the volume.
new series of biannual conferences. Progress in industry today. Also valuable as a learning tool, students and professors in chemical engineering, chemistry, and process engineering will benefit greatly from the groundbreaking new processes and technologies described in the volume.

Progress in Maritime Technology and Engineering - Carlos Guedes Soares - 2018-04-17
Progress in Maritime Technology and Engineering collects the papers presented at the 4th International Conference on Maritime Technology and Engineering (MARTECH 2018, Lisbon, Portugal, 7-9 May 2018). This conference has evolved from a series of biannual national conferences in Portugal, and has developed into an international event, reflecting the internationalization of the maritime sector and its activities. MARTECH 2018 is the fourth in this new series of biannual conferences. Progress in Maritime Technology and Engineering contains about 80 contributions from authors from all parts of the world, which were reviewed by an International Scientific Committee. The book is divided into the subject areas below: - Port performance - Maritime transportation and economics - Big data in shipping - Intelligent ship navigation - Ship performance - Computational fluid dynamics - Resistance and propulsion - Ship propulsion - Dynamics and control - Marine pollution and sustainability - Ship design - Ship structures - Structures in composite materials - Shipyard technology - Coating and corrosion - Maintenance - Risk analysis - Offshore and subsea technology - Ship motion - Ships in transit - Wave-structure interaction - Wave and wind energy - Waves Progress in Maritime Technology and Engineering will be of interest to academics and professionals involved in the above mentioned areas.

Issues in Biotechnology and Medical Technology Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Biotechnology. The editors have built Issues in Biotechnology and Medical Technology Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Biotechnology 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 Biotechnology and Medical Technology Research and Application: 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/.

Progress in Maritime Technology and Engineering - Carlos Guedes Soares - 2018-04-17
Progress in Maritime Technology and Engineering collects the papers presented at the 4th International Conference on Maritime Technology and Engineering (MARTECH 2018, Lisbon, Portugal, 7-9 May 2018). This conference has evolved from a series of biannual national conferences in Portugal, and has developed into an international event, reflecting the internationalization of the maritime sector and its activities. MARTECH 2018 is the fourth in this
For the majority of the world’s population, authoritative, and comprehensive information about Biotechnology. The editors have built Issues in Biotechnology and Medical Technology Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.”™ You can expect the information about Biotechnology 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 Biotechnology and Medical Technology Research and Application: 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/.

Biotechnological Approaches for Medicinal and Aromatic Plants - Nitish Kumar - 2018-09-11

For the majority of the world’s population, medicinal and aromatic plants are the most important source of life-saving drugs. Biotechnological tools represent important resources for selecting, multiplying and conserving the critical genotypes of medicinal plants. In this regard, in-vitro regeneration holds tremendous potential for the production of high-quality plant-based medicines, while cryopreservation – a long-term conservation method using liquid nitrogen – provides an opportunity to conserve endangered medicinal and aromatic plants. In-vitro production of secondary metabolites in plant cell suspension cultures has been reported for various medicinal plants, and bioreactors represent a key step toward the commercial production of secondary metabolites by means of plant biotechnology. Addressing these key aspects, the book contains 29 chapters, divided into three sections. Section 1: In-vitro production of secondary metabolites Section 2: In-vitro propagation, genetic transformation and germplasm conservation Section 3: Conventional and molecular approaches

Forum - - 1991

Petro-physics and Rock Physics of Carbonate Reservoirs - Kumar Hemant Singh - 2019-10-16

This book presents selected articles from the workshop on “Challenges in Petrophysical Evaluation and Rock Physics Modeling of Carbonate Reservoirs” held at IIT Bombay in November 2017. The articles included explore the challenges associated with using well-log data, core data analysis, and their integration in the qualitative and quantitative assessment of petrophysical and elastic properties in carbonate reservoirs. The book also discusses the recent trends and advances in the area of research and development of carbonate reservoir characterization, both in industry and academia. Further, it addresses the challenging concept of porosity portioning, which has huge implications for exploration and development success in these complex reservoirs, enabling readers to understand the varying orders of deposition and diagenesis and also to model the flow and elastic properties.
Since colonial rule, the island of Java served as workshop on "Challenges in Petrophysical Evaluation and Rock Physics Modeling of Carbonate Reservoirs" held at IIT Bombay in November 2017. The articles included explore the challenges associated with using well-log data, core data analysis, and their integration in the qualitative and quantitative assessment of petrophysical and elastic properties in carbonate reservoirs. The book also discusses the recent trends and advances in the area of research and development of carbonate reservoir characterization, both in industry and academia. Further, it addresses the challenging concept of porosity partitioning, which has huge implications for exploration and development success in these complex reservoirs, enabling readers to understand the varying orders of deposition and diagenesis and also to model the flow and elastic properties.

**Rethinking Power Relations in Indonesia** - Michaela Haug - 2016-07-15
Since colonial rule, the island of Java served as Indonesia’s imagined centre and prime example of development, while the Outer Islands were constructed as the state’s marginalised periphery. Recent processes of democratisation and regional autonomy, however, have significantly changed the power relations that once produced the marginality of the Outer Islands. This book explores processes of political, economic and cultural transformations in Indonesia, emphasizing their implications for centre-periphery relations from the perspective of the archipelago’s ‘margins’. Structured along three central themes, the book first provides theoretical contributions to the understanding of marginality in Indonesia. The second part focuses on political transformation processes and their implications for the Outer Islands. The third section investigates the dynamics caused by economic changes on Indonesia’s periphery. Chapters written by experts in the field offer examples from various regions, which demonstrate how power relations between centre and periphery are getting challenged, contested and reshaped. The book fills a gap in the literature by analysing the implications of the recent transformation processes for the construction of marginality on Indonesia’s Outer Islands.

**Greenhouse Gases** - Guoxiang Liu - 2012-03-09
Understanding greenhouse gas capture, utilization, reduction, and storage is essential for solving issues such as global warming and climate change that result from greenhouse gas. Taking advantage of the authors’ experience in greenhouse gases, this book discusses an overview of recently developed techniques, methods, and strategies: - Novel techniques and methods on greenhouse gas capture by physical adsorption and separation, chemical structural reconstruction, and biological utilization. - Systemic discussions on greenhouse gas reduction by policy conduction, mitigation strategies, and alternative energy sources. - A comprehensive review of geological storage monitoring technologies.

**Greenhouse Gases** - Guoxiang Liu - 2012-03-09
Understanding greenhouse gas capture, utilization, reduction, and storage is essential for solving issues such as global warming and climate change that result from greenhouse gas. Taking advantage of the authors’ experience in greenhouse gases, this book discusses an
local workforces fit into the pattern of corporate methods, and strategies: - Novel techniques and methods on greenhouse gas capture by physical adsorption and separation, chemical structural reconstruction, and biological utilization. - Systemic discussions on greenhouse gas reduction by policy conduction, mitigation strategies, and alternative energy sources. - A comprehensive review of geological storage monitoring technologies.

Corporate Social Responsibility and Local Community in Asia - Kyoko Fukukawa - 2014-04-03
The idea of corporations exercising corporate social responsibility has spread from the West and is now firmly embedded in Asian countries and in Asian corporations. The latest trend in corporate social responsibility, evident also in Asia, is for corporations to apply corporate social responsibility to local communities and to those at the bottom of the social hierarchy. This book explores corporations' social responsibility engagement with local communities in a range of Asian countries. It provides examples of corporate social responsibility in a wide range of industrial sectors, focuses extensively on "social enterprises" and on governments’ and corporations’ schemes to encourage them, considers how relations with employees and with local workforces fit into the pattern of corporate social responsibility, and discusses the question as to how far corporations engage with local communities as a way of developing new markets for their products.

The 10th International Conference on Engineering, Project, and Production Management - Kriengsak Panuwatwanich - 2020-03-03
This book gathers the proceedings of the EPPM 2019 conference, and highlights innovative work by researchers and practitioners active in various industries around the globe. Recent advances in science and technology have made it possible to seamlessly connect and integrate various elements of engineering systems, and opened the door for innovations that have transformed how we live and work. While these developments have yielded enhanced efficiency and numerous improvements in our current practices, the problems caused by the increased complexity of these integrated systems can be extremely difficult. Accordingly, solving these problems involves applying cross-disciplinary expertise to address the heterogeneity of the various elements inherent in the system. These proceedings address four main themes: (I) Smart and Sustainable Construction, (II) Advances in Project Management Practices, (III) Toward Safety and Productivity Improvement, and (IV) Smart Manufacturing, Design, and Logistics. As such, they will be of interest to and valuable to researchers and practitioners in a range of industries seeking an update on the translational fields of engineering, project, and production management.
essential elements needed when starting an entrepreneurial journey and offers inspirational case studies from key industry leaders. Ideal reading for aspiring entrepreneurs, Entrepreneurship and Big Data: The Digital Revolution is also useful to students, academicians, researchers, and practitioners.

**ICIPEG 2014** - Mariyamni Awang - 2015-03-20
This book presents the proceedings of the 3rd International Conference on Integrated Petroleum Engineering and Geosciences 2014 (ICIPEG2014). Topics covered on the petroleum engineering side include reservoir modeling and simulation, enhanced oil recovery, unconventional oil and gas reservoirs, production and operation. Similarly geoscience presentations cover diverse areas in geology, geophysics palaeontology and geochemistry. The selected papers focus on current interests in petroleum engineering and geoscience. This book will be a bridge between engineers, geoscientists, academicians and industry.

**Diplomacy on Ice** - James Gustave Speth - 2015-01-01
"As the race for resources in distant parts of the planet gathers momentum, most discussion has centered on the potential for conflict, environmental destruction, and upheaval from climate change. This important book shifts the conversation about the Arctic and Antarctic from conflict to cooperation. A multidisciplinary roster of experts provides fresh views of the polar regions, focusing on diplomacy and the potential for cooperative international decision-making. Collectively the contributors illustrate the breadth of issues that complicate governance in the Arctic and Antarctic, as well as parallels and
Diplomacy on Ice - James Gustave Speth - 2015-01-01
"As the race for resources in distant parts of the planet gathers momentum, most discussion has centered on the potential for conflict, environmental destruction, and upheaval from climate change. This important book shifts the conversation about the Arctic and Antarctic from conflict to cooperation. A multidisciplinary roster of experts provides fresh views of the polar regions, focusing on diplomacy and the potential for cooperative international decision-making. Collectively the contributors illustrate the breadth of issues that complicate governance in the Arctic and Antarctic, as well as parallels and differences between the politics of the two poles"--

Green Technologies - Pau Loke Show - 2020-11-23
Green technologies can be identified as key components in Industry 4.0. The scope of this book is to address how conventional green technologies can be a part of smart industries by minimizing waste, maximizing productivity, optimizing the supply chain, or by additive manufacturing. This theme focuses on the scope and challenges of integrating current environmental technologies in future industries. This book, “Green Technologies: Bridging Conventional Practices and Industry 4.0”, aims to incorporate and introduce the advances in green technologies to the cyber-based industries. It is hoped that the novel green technologies presented in this book are useful in assisting the global community in working towards fulfilling the Sustainable Development Goals.

Selected Problems in Fluid Flow and Heat Transfer - Artur J. Jaworski - 2019-09-20
Fluid flow and heat transfer processes play an important role in many areas of science and engineering, from the planetary scale (e.g., influencing weather and climate) to the microscopic scales of enhancing heat transfer by the use of nanofluids; understood in the broadest possible sense, they also underpin the performance of many energy systems. This topical Special Issue of Energies is dedicated to the recent advances in this very broad field. This book will be of interest to readers not only in the fields of mechanical, aerospace, chemical, process and petroleum, energy, earth, civil and flow instrumentation engineering but, equally, biological and medical sciences, as well as physics and mathematics; that is, anywhere that “fluid flow and heat transfer” phenomena may play an important role or be a subject of worthy research pursuits.

Advances in Remote Sensing and Geo Informatics Applications - Hesham M. El-Askary - 2018-12-29
This edited volume is based on the best papers accepted for presentation during the 1st
Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing.

Citrus Essential Oils - Masayoshi Sawamura - 2011-09-14
Commercially used for food flavorings, toiletry products, cosmetics, and perfumes, among others, citrus essential oil has recently been applied physiologically, like for chemoprevention against cancer and in aromatherapy. Citrus Essential Oils: Flavor and Fragrance presents an overview of citrus essential oils, covering the basics, methodology, and applications involved in recent topics of citrus essential oils research. The concepts, analytical methods, and properties of these oils are described and the chapters detail techniques for oil extraction, compositional analysis, functional properties, and industrial uses. This book is an unparalleled resource for food and flavor scientists and chemists.

Intelligent Transportation and Planning: Breakthroughs in Research and Practice - Management Association, Information Resources - 2018-02-02
From driverless cars to vehicular networks, recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers must take care to address all concerns, limitations, and dangers...
Intelligent Transportation and Planning: Breakthroughs in Research and Practice - Management Association, Information Resources - 2018-02-02

From driverless cars to vehicular networks, recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers must take care to address all concerns, limitations, and dangers before widespread public adoption. Intelligent Transportation and Planning: Breakthroughs in Research and Practice is an innovative reference source for the latest academic material on the applications, management, and planning of intelligent transportation systems. Highlighting a range of topics, such as automatic control, infrastructure systems, and system architecture, this publication is ideally designed for engineers, academics, professionals, and practitioners actively involved in the transportation planning sector.

Malaysia: A Maritime Nation - Hardcover (Editors: Ruhanas Harun & Sabirin Ja'afar) - Ruhanas Harun - 2021-09-03


**Encyclopedia of Renewable and Sustainable Materials** - 2020-01-09
Encyclopedia of Renewable and Sustainable Materials provides a comprehensive overview, covering research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO2) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

**Handbook of Biofuels Production** - Rafael Luque - 2010-11-25
In response to the global increase in the use of biofuels as substitute transportation fuels, advanced chemical, biochemical and thermochemical biofuels production routes are fast being developed. Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The range of biofuels has also increased to supplement bioethanol and biodiesel production, with market developments leading to the increased production and utilisation of such biofuels as biosyngas, biogas and biodiesel, among others. Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Part one reviews the key issues in
conversion, with both sections detailing the wide feedstocks, sustainability assessment and policy development. Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo-chemical conversion, with both sections detailing the wide range of processes and technologies applicable to the production of first, second and third generation biofuels. Finally, Part four reviews developments in the integration of biofuels production, including biorefineries and by-product valorisation, as well as the utilisation of biofuels in diesel engines. With its distinguished international team of contributors, Handbook of biofuels production is a standard reference for biofuels production engineers, industrial chemists and biochemists, plant scientists, academics and researchers in this area. A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development. Reviews chemical and bio-chemical conversion techniques as well as thermal and thermo-chemical conversion, detailing the range of processes and technologies applicable to biofuels production.

**Handbook of Biofuels Production** - Rafael Luque - 2010-11-25

In response to the global increase in the use of biofuels as substitute transportation fuels, advanced chemical, biochemical and thermochemical biofuels production routes are fast being developed. Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The range of biofuels has also increased to supplement bioethanol and biodiesel production, with market developments leading to the increased production and utilisation of such biofuels as bio-syngas, biohydrogen and biobutanol, among others. Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Part one reviews the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development. Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo-chemical conversion, with both sections detailing the wide range of processes and technologies applicable to the production of first, second and third generation biofuels. Finally, Part four reviews developments in the integration of biofuels production, including biorefineries and by-product valorisation, as well as the utilisation of biofuels in diesel engines. With its distinguished international team of contributors, Handbook of biofuels production is a standard reference for biofuels production engineers, industrial chemists and biochemists, plant scientists, academics and researchers in this area. A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development. Reviews chemical and bio-chemical conversion techniques as well as thermal and thermo-chemical conversion, detailing the range of processes and technologies applicable to biofuels production.

**ICOST 2019** - Sri Harini - 2020-06-14

We are delighted to introduce the proceeding of the first edition of the International Conference on Science and Technology (ICoST) that was held in Claro Hotel, May 2-3, 2019. It was organized by Faculty of Science and Technology, Universitas Islam Negeri Alauddin Makassar in partnership with Forum Dekan Fakultas Sains dan Teknologi PTKIN. The theme of the ICoST is “Roles and Challenges of Science and Technology in Guaranteeing Halal Products in the Industrial Revolution 4.0”. The Indonesian government has begun to respond this industrial change by launching the roadmap of ’Making Indonesia 4.0’ as a strategy to ease Indonesia’s steps to become one of the new powers in Asia in April 2018. This roadmap provides a clear direction for the movement of the national industry in the future, including a focus on developing priority sectors that will become Indonesia’s strength towards Industry 4.0. The proceeding of ICoST contains the scientific research, written by the academicians, researchers, practitioners, and government elements who have the same thoughts about the effort to develop the society’s ability to adapt the advancement of science and technology in the global competition to face the industrial revolution 4.0. We are also very grateful to all keynote speakers and committee members,
We are delighted to introduce the proceeding of the first edition of the International Conference on Science and Technology (ICoST) that was held in Claro Hotel, May 2-3, 2019. It was organized by Faculty of Science and Technology, Universitas Islam Negeri Alauddin Makassar in partnership with Forum Dekan Fakultas Sains dan Teknologi PTKIN. The theme of the ICoST is “Roles and Challenges of Science and Technology in Guaranteeing Halal Products in the Industrial Revolution 4.0”. The Indonesian government has begun to respond this industrial change by launching the roadmap of ‘Making Indonesia 4.0’ as a strategy to ease Indonesia’s steps to become one of the new powers in Asia in April 2018. This roadmap provides a clear direction for the movement of the national industry in the future, including a focus on developing priority sectors that will become Indonesia's strength towards Industry 4.0. The proceeding of ICoST contains the scientific research, written by the academicians, researchers, practitioners, and government elements who have the same thoughts about the effort to develop the society’s ability to adapt the advancement of science and technology in the global competition to face the industrial revolution 4.0. We are also very grateful to all keynote speakers and committee members, willing to act as referee for their time and efforts to keep our conference going well. In the future, we expect the ICoST will be able to provide another scientific atmosphere and stimulate more participants to join this conference.

Managing Resource Abundance and Wealth: The Norwegian Experience describes the sundry and significant challenges, both economic and political, facing petroleum-producing countries. The volume outlines the pitfalls that policymakers encounter in the aftermath of a major resource discovery, and what they can do to protect their countries from the most adverse consequences. These lessons are derived from two very different sources: The broader-if still underdeveloped-social science literature that examines the 'Paradox of Plenty' in its disparate forms; and the experience of a country that has successfully managed its natural resources over several decades. As a small country on the margins of Europe, Norway has stood up to powerful international interests in one of the world's most powerful industries. Norway has exerted sovereign control over its natural environment, and exploited its resources in a way that has delivered significant wealth to its citizens. This volume explains how Norway has largely avoided the 'Paradox of Plenty'. It aims to demonstrate the variety of policy tools that are available to states rich in natural resources, and how these tools can be adjusted to changing (domestic and international) contexts. It considers a number of questions, such as how countries need to administer and regulate the industry to consider the costs and benefits associated with various contract and licensing regimes, and fiscal arrangements; to maintain competitiveness and avoid becoming too dependent upon the sector; to maximize local content; and to protect the broader economy from the volatility of petroleum prices. The volume shows how the industry can be managed in a democratic, just, and ethical manner, and for the benefit of the general population.
highlighting topics such as engineering economy, available to states rich in natural resources, and how these tools can be adjusted to changing (domestic and international) contexts. It considers a number of questions, such as how countries need to administer and regulate the industry to consider the costs and benefits associated with various contract and licensing regimes, and fiscal arrangements; to maintain competitiveness and avoid becoming too dependent upon the sector; to maximize local content; and to protect the broader economy from the volatility of petroleum prices. The volume shows how the industry can be managed in a democratic, just, and ethical manner, and for the benefit of the general population.

This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. This special volume is of interest to all researchers practicing geophysicists/seismologists, students of PG and UG in the fields of multifaceted Geoscience. Major applications with relevant illustrations presented in the volume are from Middle East. And therefore, this book no doubt would serve as a reference guide to all geoscientists and students in the broad field of Earth Science. This volume covers significant applications of gravity and magnetic methods, electrical and electromagnetic methods, refraction and reflection seismic methods besides a large number of study on earthquakes, tectonics and geological settings etc. The salient features of this volume are the interpretation and modeling of geophysical data of different nature. Main topics include: 1. Applications of gravity and magnetic methods. 2. Electrical and Electromagnetic methods in mineral and groundwater exploration. 3. Case studies on refraction and reflection seismic methods. 4. Integrated geoscience applications in the exploration of subsurface resources. 5. Hydrocarbon and petrophysical studies. 6. Earthquakes and seismic hazard assessment. 7. Tectonics.
Organic Rankine Cycle (ORC) Power Systems and magnetic methods, electrical and electromagnetic methods, refraction and reflection seismic methods besides a large number of study on earthquakes, tectonics and geological settings etc. The salient features of this volume are the interpretation and modeling of geophysical data of different nature. Main topics include: 1. Applications of gravity and magnetic methods. 2. Electrical and Electromagnetic methods in mineral and groundwater exploration. 3. Case studies on refraction and reflection seismic methods. 4. Integrated geoscience applications in the exploration of subsurface resources. 5. Hydrocarbon and petrophysical studies. 6. Earthquakes and seismic hazard assessment. 7. Tectonics

Organic Rankine Cycle (ORC) Power Systems - Ennio Macchi - 2016-08-24
Organic Rankine Cycle (ORC) Power Systems: Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost-effective sustainable energy generation. Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations, as well as waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes. With hundreds of ORC power systems already in operation and the market growing at a fast pace, this is an active and engaging area of scientific research and technical development. The book is structured in three main parts: (i) Introduction to ORC Power Systems, Design and Optimization, (ii) ORC Plant Components, and (iii) Fields of Application. Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies, including cogeneration from biomass, electricity generation from geothermal reservoirs and concentrating solar power installations, waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes Various chapters are authored by well-known specialists from Academia and ORC manufacturers

Critical Infrastructure Protection II - Mauricio Papa - 2008-10-16
Critical Infrastructure Protection II describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. This book is the second volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.10 on Critical Infrastructure Protection, an international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and
such as EOR and environmental cleanup of fossil fuel protection. This book contains a selection of twenty edited papers from the Second Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection held at George Mason University, Arlington, Virginia, USA in the spring of 2008.

**Critical Infrastructure Protection II**
Mauricio Papa - 2008-10-16
Critical Infrastructure Protection II describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. This book is the second volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.10 on Critical Infrastructure Protection, an international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts focused on infrastructure protection. The book contains a selection of twenty edited papers from the Second Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection held at George Mason University, Arlington, Virginia, USA in the spring of 2008.

**Recent Insights in Petroleum Science and Engineering**
Mansoor Zoveidavianpoor - 2018-02-07
This book presents new insights into the development of different aspects of petroleum science and engineering. The book contains 19 chapters divided into two main sections: (i) Exploration and Production and (ii) Environmental Solutions. There are 11 chapters in the first section, and the focus is on the topics related to exploration and production of oil and gas, such as characterization of petroleum source rocks, drilling technology, characterization of reservoir fluids, and enhanced oil recovery. In the second section, the special emphasis is on waste technologies and environmental cleanup in the downstream sector. The book written by numerous prominent scholars clearly shows the necessity of the multidisciplinary approach to sustainable development in the petroleum industry and stresses the most updated topics such as EOR and environmental cleanup of fossil fuel wastes.

**Advances in Petroleum Engineering and Petroleum Geochemistry**
Santanu Banerjee - 2019-03-11
This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of petroleum engineering, reservoir engineering and petroleum geochemistry. The MENA region accounts for more than 50 percent of the world's hydrocarbon reserves. Despite being the largest oil and gas producer of the world, the MENA countries face routine problems regarding petroleum engineering, reservoir modelling and production optimization. This volume offers an overview of the latest information and ideas regarding reservoir engineering, petrophysical engineering, petroleum system modelling, non-conventional energy resources and environmental impact of oil production. Main topics include: 1. Advances in petrophysical characterization of reservoir rocks 2. Enhanced oil recovery methods 3. Advances in petroleum exploration and management 4. Evaluation of hydrocarbon source potential and petroleum system modelling 5. Non-conventional energy resources.
Advances in Petroleum Engineering and Petroleum Geochemistry - Santanu Banerjee - 2019-03-11
This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of petroleum engineering, reservoir engineering and petroleum geochemistry. The MENA region accounts for more than 50 percent of the world's hydrocarbon reserves. Despite being the largest oil and gas producer of the world, the MENA countries face routine problems regarding petroleum engineering, reservoir modelling and production optimization. This volume offers an overview of the latest information and ideas regarding reservoir engineering, petrophysical engineering, petroleum system modelling, non-conventional energy resources and environmental impact of oil production. Main topics include: 1. Advances in petrophysical characterization of reservoir rocks2. Enhanced oil recovery methods 3. Advances in petroleum exploration and management 4. Evaluation of hydrocarbon source potential and petroleum system modeling5. Non-conventional energy resources

It is necessary to understand the extent of pollution in the environment in terms of the air, water, and soil in order for both humans and animals to live healthier lives. Poor waste treatment or pollution monitoring can lead to massive environmental issues, such as diminishing valuable resources, and cause a significant negative impact on society. Solutions, such as reuse of waste and sustainable waste management, must be explored to prevent these adverse effects. The Handbook of Research on Resource Management for Pollution and Waste Treatment is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues. Featuring coverage on a wide range of topics such as soil washing, bioremediation, and runoff handling, this book is ideally designed for environmentalists, engineers, waste management professionals, natural resource regulators, environmental policymakers, scientists, academicians, researchers, and students seeking current research on viable resource management methods for the regeneration of their immediate environment.

A Selected Bibliography on Fish Oils - Paul E. Bauersfeld - 1985

Nanofiber Membranes for Medical, Environmental, and Energy Applications - Ahmad Fauzi Ismail - 2019-07-30
This book focuses on the nanofiber membrane’s fabrication, characterization, and performance for medical, environment and energy applications. Topics include polymer, inorganic and composite-form nanofiber membrane
disciplines and continents outline applied nanofiber membrane fabrication techniques and characterizations. Promising nanofiber membranes for improving and enhancing technologies used in drug delivery, wound healing, tissue engineering, water and wastewater treatment and purification, gas separation and purification, air purification, and fuel cells are discussed along with the likely path forward for commercial usage. Key Features: Shares the most recent discovery solutions from experts all over the globe for the numerous problems in medical, environmental and energy applications. Provides a holistic cycle of nanofiber membrane development which comprehensively discusses the membrane preparation, characterizations, performance and the way forward for a specific process and application. Explains the mechanism of separation and purification. Focuses on the nanofiber membrane’s fabrication, characterizations, and performance in various scenarios and commercial applications.

**Nanofiber Membranes for Medical, Environmental, and Energy Applications** - Ahmad Fauzi Ismail - 2019-07-30
This book focuses on the nanofiber membrane’s fabrication, characterization, and performance for medical, environment and energy applications. Topics include polymer, inorganic and composite-form nanofiber membrane materials. Top Research teams from varied disciplines and continents outline applied nanofiber membrane fabrication techniques and characterizations. Promising nanofiber membranes for improving and enhancing technologies used in drug delivery, wound healing, tissue engineering, water and wastewater treatment and purification, gas separation and purification, air purification, and fuel cells are discussed along with the likely path forward for commercial usage. Key Features: Shares the most recent discovery solutions from experts all over the globe for the numerous problems in medical, environmental and energy applications. Provides a holistic cycle of nanofiber membrane development which comprehensively discusses the membrane preparation, characterizations, performance and the way forward for a specific process and application. Explains the mechanism of separation and purification. Focuses on the characterizations, and performance in various scenarios and commercial applications.

**Masa Depan Bumi** - 1993

**Masa Depan Bumi** - 1993