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Finance

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Given the design component it involves, financial engineering should be considered equal to conventional engineering. By adopting this complementary approach, financial models can be used to identify how and why timing is critical in optimizing return on investment and to demonstrate how financial engineering can enhance returns to

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investors. Metals and Energy Finance capitalizes on this approach, and identifies and examines the investment opportunities offered across the extractive industry's cycle, from exploration through evaluation, pre-production development, development and production. The textbook also addresses the similarities of a range of natural resource projects, whether minerals or petroleum, while at the same time identifying their key differences. This new edition has been comprehensively revised with a new chapter

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on Quantitative Finance and three additional case studies. Contemporary themes in the revised edition include the current focus on the transition from open pit to underground mining as well as the role of real option valuations applied to marginal projects that may have value in the future. This innovative textbook is clear and concise in its approach. Both authors have extensive experience within the academic environment at a senior level as well as track records of hands-on participation in projects within the natural

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resources and financial services sectors. Metals and Energy Finance will be invaluable to both professionals and graduate students working in the field of mineral and petroleum business management.

This book is based on the undergraduate and MSc courses in hydrometallurgy which Professor A R Burkin gave from 1961 until he retired in 1988. It is divided into two sections. The first deals with the fundamental chemical and physical principles on which the technology is based. In the second, processes

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which are used for the production of individual metals are described, in terms of those principles where appropriate.

The story of human civilization can be read most deeply in the materials we have found or created, used or abused. They have dictated how we build, eat, communicate, wage war, create art, travel, and worship. Some, such as stone, iron, and bronze, lend their names to the ages. Others, such as gold, silver, and diamond, contributed to the rise and fall of great empires. How would

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history have unfolded without glass, paper, steel, cement, or gunpowder? The impulse to master the properties of our material world and to invent new substances has remained unchanged from the dawn of time; it has guided and shaped the course of history. Sass shows us how substances and civilizations have evolved together. In antiquity, iron was considered more precious than gold. The celluloid used in movie film had its origins in the search for a substitute for ivory billiard balls. The same clay used in

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the pottery of antiquity has its uses in today's computer chips. Moving from the Stone Age to the Age of Silicon, from the days of prehistoric survival to the cutting edge of nanotechnology, this fascinating and accessible book connects the worlds of minerals and molecules to the sweep of human history, and shows what materials will dominate the century ahead.

***From Materials Design to Chemical Processing
Chemical Hydrometallurgy***

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The Rise of Smart Cities Corrosion Science and Technology Cultural, technical and historical developments Cannibal Writes

Africa's dire need to industrialize is universally acknowledged and it is evident that the continent's vast mineral resources can catalyze that industrialization. This requires the promotion of local beneficiation and value addition of minerals to yield materials on which modern Africa's industry and society can rely. This book is,

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therefore, about transforming Africa's comparative advantages in minerals into the continent's competitive edge regarding materials. Mineral beneficiation and value addition form the basis and provide opportunities for mineral-driven Africa's industrialization. The scope of the book is three-fold with inter-connected relationships: Information, Technical, and Policy oriented. It will be a useful reference material for mining undergraduate students on beneficiation and value addition of each of the minerals found in Africa. The book, while presenting a broad overview of

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beneficiation and value addition of Africa's minerals, provides crucial starting material for postgraduate research students and R&D institutions who wish to delve into more advanced methods of extraction and utilization of mineral-derived materials that are in Africa for the purpose of industrialization of the continent.

Now in its 50th edition, British Qualifications 2020 is the definitive one-volume guide to every recognized qualification on offer in the United Kingdom. With an equal focus on both academic and professional vocational studies, this

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indispensable guide has full details of all institutions and organizations involved in the provision of further and higher education, making it the essential reference source for careers advisers, students, and employers. It also contains a comprehensive and up-to-date description of the structure of further and higher education in the UK, including an explanation of the most recent education reforms, providing essential context for the qualifications listed. British Qualifications 2020 is compiled and checked annually to ensure the highest currency and accuracy of this valuable

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information. Containing details on the professional vocational qualifications available from over 350 professional institutions and accrediting bodies, informative entries for all UK academic universities and colleges, and a full description of the current structural and legislative framework of academic and vocational education, it is the complete reference for lifelong learning and continuing professional development in the UK.

Twenty years after its first publication, Corrosion Science and Technology continues to

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be a relevant practical guide for students and professionals interested in material science. This Third Edition thoroughly covers the basic principles of corrosion science in the same reader-friendly manner that made the previous edition invaluable, and enlarges the scope of the content with expanded chapters on processes for various metals and new technologies for limiting costs and metal degradation in a variety of commercial enterprises not explored in previous editions. This book also presents expertly developed methods of corrosion testing and prediction.

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Quaternary Landscapes

Transition Metal Carbonyl Cluster Chemistry

Army Aeromedical Evacuation in Vietnam

Metals Reference Book

Decontamination of Toxic Metals from

Wastewater

Metal/Environment Reactions

Given the design component it involves, financial engineering should be considered equal to conventional engineering. By adopting this complementary approach, financial models can be used to identify how and why timing is critical in optimizing return on investment and to demonstrate how financial engineering can enhance returns to investors. Metals and Energy Finance capitalizes on this approach, and identifies

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and examines the investment opportunities offered across the extractive industry's cycle, from exploration through evaluation, pre-production development, development and production. The textbook also addresses the similarities of a range of natural resource projects, whether minerals or petroleum, while at the same time identifying their key differences. This innovative textbook is clear and concise in its approach, and is illustrated throughout with case studies and exercises used at professional training sessions. As the sum of 45 years' international experience in industry and teaching mining geology, mineral exploration and mineral project appraisal, Metals and Energy Finance will be invaluable to both professionals and graduate students working in the field of mineral and petroleum business

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management. If you would like to look at two courses on this subject, please click on the following links for more information: 'Metals and Energy Finance' — www.imperial.ac.uk/cpd/mef and 'Introduction to Mining for Bankers' — www.imperial.ac.uk/cpd/mfb In July 2016 Prof Buchanan will present the EduMine course "Valuation of Mineral Projects Based on Technical and Financial Modelling" in Vancouver, Canada, for which this book will be used to support the delivery. For more information please visit <http://www.edumine.com/courses/short-courses/valuation-of-mineral-projects-based-on-technical-and-financial-modelling/>.

Errata(s) Errata (21 KB)

During a tour with The Historical Unit, U.S. Army Medical Dept., from 1974-1977, Peter Dorland, then a captain and a

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former Dust Off pilot in Vietnam, completed the basic research for this book and drafted a lengthy manuscript. In 1971, James Nanney, an editor at the U.S. Army Center of Military History conducted further research on Dust Off, reorganized and redrafted portions of the original manuscript, and added Chapter 4 and the Epilogue. Chapters include: the early years of medical evacuation, and the Korean War; birth of a tradition; the system matures; the pilot at work; from Tet 1968 to stand-down; statistics; doctrine and lessons learned; a historical perspective; and bibliography.

Sustainable Nanoscale Engineering: From Materials Design to Chemical Processing presents the latest on the design of nanoscale materials and their applications in sustainable chemical production processes. The newest achievements of

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materials science, in particular nanomaterials, opened new opportunities for chemical engineers to design more efficient, safe, compact and environmentally benign processes. These materials include metal-organic frameworks, graphene, membranes, imprinted polymers, polymers of intrinsic microporosity, nanoparticles, and nanofilms, to name a few. Topics discussed include gas separation, CO₂ sequestration, continuous processes, waste valorization, catalytic processes, bioengineering, pharmaceutical manufacturing, supercritical CO₂ technology, sustainable energy, molecular imprinting, graphene, nature inspired chemical engineering, desalination, and more. Describes new, efficient and environmentally accepted processes for nanomaterials design Includes a large array of materials, such as metal-organic

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frameworks, graphene, imprinted polymers, and more

Explores the contribution of these materials in the development of sustainable chemical processes

Minerals in Africa

Theory and Principles

Metals and Energy Finance

Advanced Textbook on the Evaluation of Mineral and Energy Projects

Materials and Human History from the Stone Age to the Age of Silicon

British Qualifications 2014

This books provides a comprehensive platform to the scientific, education

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and research communities working on various fields related to sustainable energy. It covers the exploration, generation and application of this area to meet societal needs as well as addressing global issues related to the environment. The content of this book presents research related to energy and how to tackle climate change as a comprehensive framework based on the success of the Millennium Development Goals (MDGs). The authors use the

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scientific method to analyze and deliver viable technical solutions, demonstrating how chemistry and engineering can be combined to solve technically challenging problems. While maintaining high scientific rigor, a quantitative approach is offered in select chapters to the study of energy related to our societies increasing need for electrical and chemical energy feedstocks.

Postcolonial and diaspora studies

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scholars and critics have paid increasing attention to the use of metaphors of food, eating, digestion, and various affiliated actions such as loss of appetite, indigestion, and regurgitation. As such stylistic devices proliferated in the works of non-Western women writers, scholars connected metaphors of eating and consumption to colonial and imperial domination. In *Cannibal Writes*, Njeri Githire concentrates on the gendered

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and sexualized dimensions of these visceral metaphors of consumption in works by women writers from Haiti, Jamaica, Mauritius, and elsewhere. Employing theoretical analysis and insightful readings of English- and French-language texts, she explores the prominence of alimentary-related tropes and their relationship to sexual consumption, writing, global geopolitics and economic dynamics, and migration. As she shows, the use of

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cannibalism in particular as a central motif opens up privileged modes for mediating historical and sociopolitical issues. Ambitiously comparative, *Cannibal Writes* ranges across the works of well-known and lesser known writers to tie together two geographic and cultural spaces that have much in common but are seldom studied in parallel.

With mounting pressure to extract petroleum from oil sands and other

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unconventional sources, oil refineries must adapt their processing methods to handle increasingly heavy crude oils. Unlike traditional crude oils, the properties of heavier crude oils include higher viscosity, metal, salt, and acid content. This causes their interfacial properties to deteriorate, leading to problems such as sedimentation, foaming, emulsification, rust, and corrosion—all of which make the manufacture, transportation, and

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storage of petroleum products more difficult. Interfacial Properties of Petroleum Products examines conventional and non-conventional processing techniques for crude oils and documents their effects on the composition and properties of petroleum products at the oil/solid, oil/air, oil/water and oil/metal interfaces. Focusing on surface activity, the author examines the undesirable effects of processes such as solvent

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extraction, desalting, dewaxing, catalyst deactivation, and hydroprocessing as well as trace element and water contamination. With each process, the author presents methods for improving interfacial properties, including the use of surface-active additives, demulsifiers, antifoaming agents, and corrosion/rust inhibitors. A distinctive and up-to-date source of materials published together for the first time,

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Interfacial Properties of Petroleum Products will help engineers design more cost-effective and resource-efficient processing methods for heavier crude oils, based on the properties of the crude oil extracted.

A Complete Guide to Professional, Vocational & Academic Qualifications in the United Kingdom

Professional Financial Computing Using Excel and VBA

Phytoremediation of Metal-Contaminated

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Soils

Novel Biomaterials

British Qualifications 2016

Policy, Materials and Devices

This book, entitled “ Mesoporous Metal Oxide Films ” , contains an editorial and a collection of ten research articles covering fundamental studies and applications of different metal oxide films. Mesoporous materials have been widely investigated and applied in many technological applications owing to their outstanding structural and physical properties. In this book, important developments in this fast-moving field are presented from various research groups around the world. Different preparation methods and applications of these novel

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and interesting materials have been reported, and it was demonstrated that mesoporosity has a direct impact on the properties and potential applications of such materials. The potential use of mesoporous metal oxide films and coatings with different morphology and structures is demonstrated in many technological applications, particularly chemical and electrochemical sensors, supercapacitors, solar cells, photoelectrodes, bioceramics, photonic switches, and anticorrosion agents.

Now in its 46th edition, British Qualifications is the definitive one-volume guide to every qualification on offer in the United Kingdom. With an equal focus on vocational studies, this essential guide has full details of all institutions and organizations involved in the provision of further and higher

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education and is an essential reference source for careers advisors, students and employers. It also includes a comprehensive and up-to-date description of the structure of further and higher education in the UK. The book includes information on awards provided by over 350 professional institutions and accrediting bodies, details of academic universities and colleges and a full description of the current framework of academic and vocational education. It is compiled and checked annually to ensure accuracy of information.

"Professional Financial Computing Using Excel and VBA is an admirable exposition that bridges the theoretical underpinnings of financial engineering and its application which usually appears as a "black-box" software application.

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The book opens the black-box and reveals the architecture of risk-modeling and financial engineering based on industry-standard stochastic models by utilizing Excel and VBA functionality to create a robust and practical modeling tool-kit. Financial engineering professionals who purchase this book will have a jumpstart advantage for their customized financial engineering and modeling needs." Dr. Cameron Wicentowich Vice President, Treasury Analytics Canadian Imperial Bank of Commerce (CIBC) "Spreadsheet modeling for finance has become a standard course in the curriculum of many Quantitative Finance programs since the Excel-based Visual Basic programming is now widely used in constructing optimal portfolios, pricing structured products and managing risks. Professional Financial Computing Using Excel and VBA

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is written by a unique team of finance, physics and computer academics and practitioners. It is a good reference for those who are studying for a Masters degree in Financial Engineering and Risk Management. It can also be useful for financial engineers to jump-start a project on designing structured products, modeling interest term structure or credit risks." Dr. Jin Zhang Director of Master of Finance Program and Associate Professor The University of Hong Kong "Excel has been one of the most powerful tools for financial planning and computing over the last few years. Most users utilize a fraction of its capabilities. One of the reasons is the limited availability of books that cover the advanced features of Excel for Finance. Professional Financial Computing Using Excel and VBA goes the extra mile and deals with the Excel tools

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many professionals call for. This book is a must for professionals or students dealing with financial engineering, financial risk management, computational finance or mathematical finance. I loved the way the authors covered the material using real life, hands-on examples." Dr. Isaac Gottlieb Temple University Author, Next Generation Excel: Modeling in Excel for Analysts and MBAs

Corrosion

Eating Others in Caribbean and Indian Ocean Women's Writing

Opportunities for the Continent ' s Industrialisation

Dust Off

Graduate Studies 1986/87

Non-ferrous Metal Data

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Now in its 42nd edition, British Qualifications is the definitive one-volume guide to every qualification on offer in the United Kingdom. With full details of all institutions and organizations involved in the provision of further and higher education, this publication is an essential reference source for careers advisors, students and employers. It also includes a comprehensive and up-to-date description of the structure of further

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and higher education in the UK. The book includes information on awards provided by over 350 professional institutions and accrediting bodies, details of academic universities and colleges and a full description of the current framework of academic and vocational educational. It is compiled and checked annually to ensure accuracy of information.

Current research revolves around trends to bring technology into harmony with

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the natural environment and in order to protect the ecosystem. Bioremediation involves processes which reduce the overall treatment costs by using agricultural residues. Regeneration of the biosorbent further increases the cost effectiveness of the process, thus warranting its future success in solving water quality problems. Special emphasis is paid to chemical modifications resulting in tailored novel biomaterials which improve its

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sorption efficiency and environmental stability. In this way it can be used commercially as a simple, fast, economical, ecofriendly green technology, for the removal of toxic metals from waste water particularly in rural and remote areas of the country. Corrosion, Volume 1: Metal/Environment Reactions is concerned with the subject of corrosion, with emphasis on the control of the environmental interactions of metals and alloys used

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as materials of construction. Corrosion is treated as a synthesis of corrosion science and corrosion engineering. This volume is comprised of nine chapters; the first of which provides an overview of the principles of corrosion and oxidation, with emphasis on the electrochemical mechanism of corrosion and how the kinetics of cathodic and anodic partial reactions control the rate of overall corrosion reaction. Attention then turns to the effects of

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environmental factors such as concentration, velocity, and temperature based on the assumption that either the anodic or cathodic reaction, but not both, is rate-controlling. The corrosion of ferrous and non-ferrous metals and alloys, as well as rarer and noble metals, is considered. The reader is also introduced to high-temperature corrosion and mechanical factors that affect corrosion. This book concludes

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with topics of electrochemistry and metallurgy relevant to corrosion, including the nature of the electrified interface between the metal and the solution; charge transfer across the interface under equilibrium and non-equilibrium conditions; overpotential and the rate of an electrode reaction; and the hydrogen evolution reaction and hydrogen absorption by ferrous alloys. This book will be of value to students as well as workers and engineers in the

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field of corrosion.

The Substance of Civilization

Metal Plating and Patination

Year Book of the American Bureau of

Metal Statistics

Metal Construction

New Scientist

World Directory of Crystallographers

and of Other Scientists Employing

Crystallographic Methods

This is the first book aimed at development of a common language among scientists working in

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the field of Phytoremediation. Authors of the main chapters are leading scientists in this field. Some of them were among the first ones to have suggested the use of hyperaccumulator plants for extraction of metals from soils. Manuscripts based on lectures presented at the ASI have been revised here to take into account ASI participants' comments and suggestions.

Surface finishing is a major subject in the field of metals. The artistic and technical development of decorative or protective finishes has produced some distinctive classes of metalwork in different parts of the world. Metal Plating and Patination is

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the most important reference work to be published surveying the surface treatments used from the inception of metallurgy to the present day.

Alternative assets such as fine art, wine, or diamonds have become popular investment vehicles in the aftermath of the global financial crisis. Correlation with classical financial markets is typically low, such that diversification benefits arise for portfolio allocation and risk management. Cryptocurrencies share many alternative asset features, but are hampered by high volatility, sluggish commercial acceptance,

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and regulatory uncertainties. This collection of papers addresses alternative assets and cryptocurrencies from economic, financial, statistical, and technical points of view. It gives an overview of their current state and explores their properties and prospects using innovative approaches and methodologies.

Advances in Sustainable Energy

Advanced Structural Sensing and Monitoring Systems

Mesoporous Metal Oxide Films

The Guide to Postgraduate Study in the UK

The Students' Guide to Graduate Studies in the

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UK 1994

A Concise Personal Guide to Research and Graduate Studies in the UK.

Transition metal carbonyl clusters (TMCCs) continue to inspire great interest in chemical research, as much for their fascinating structures as for potential industrial applications conferred by their unique properties. This highly accessible book introduces the bonding, structure, spectroscopic properties, and characterization of clusters, and then explores their synthesis, reactivity,

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reaction mechanisms and use in organic synthesis and catalysis. Transition Metal Carbonyl Cluster Chemistry describes models and rules that correlate cluster structure with electron count, which are then applied in worked examples. Subsequent chapters explain how bonding relates to molecular structure, demonstrate the use of spectroscopic techniques such as NMR, IR and MS in cluster chemistry, and outline the factors contributing to the stability, dynamics and reactivity of clusters. The second part of this book discusses the synthesis and applications of TMCCs. It

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emphasizes the differences between the reactivities of clusters vs. mononuclear metal complexes, contingent to the availability of multiple-bonding sites and heterosite reactivity. The final chapters discuss reactions in which clusters act as homogeneous catalysts; including discussion on the use of solid and biphasic liquid-liquid supported clusters in heterogeneous catalysts. A useful reference for those commencing further research or post-graduate study on metal carbonyl clusters and advanced organometallic chemistry, this book is also a cornerstone addition to academic and

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libraries as well as private collections. New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

The Rise of Smart Cities: Advanced Structural Sensing and Monitoring Systems provide engineers and researchers with a guide to the latest breakthroughs in the deployment of

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smart monitoring technologies over the past three decades. The book introduces research engineers and engineering designers to the latest innovations in the area of advanced structural sensing systems and how they can be integrated into the planning and design of smart cities. Topics include complementary technological paradigms such as machine learning, big data analytics, cloud computing and Internet of Things (IoT) With this book in hand, researchers and design engineers will find a valuable reference in terms of civil infrastructure health monitoring, advanced computation, data mining, data

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fusion, and state-of-the-art nondestructive testing and evaluation (NDT&E) techniques. Reviews the latest development in smart structural health monitoring (SHM) systems Introduces all major algorithms, with a focus on practical implementation Includes real-world applications and case studies Opens up a new horizon for robust structural sensing methods and their applications in smart cities

The Students' Guide to Graduate Studies in the UK

*Sustainable Nanoscale Engineering
In Search of Good Energy Policy*

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Application of Quantitative Finance

*Techniques to the Evaluation of Minerals,
Coal and Petroleum Projects*

*A Complete Guide to Professional, Vocational
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Graduate Studies

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volume guide to every qualification on
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of further and higher education, this publication is an essential reference source for careers advisors, students and employers. It also includes a comprehensive and up-to-date description of the structure of further and higher education in the UK. The book includes information on awards provided by over 350 professional institutions and accrediting bodies, details of academic universities and colleges and a full description of the

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current framework of academic and vocational education. It is compiled and checked annually to ensure accuracy of information.

Offers an innovative look at why science and technology cannot alone meet the needs of energy policy making in the future.

*Alternative Assets and Cryptocurrencies
Postgraduate Study in Britain 1993-1994
Higher Education in the United Kingdom
British Qualifications 2020*

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*Interfacial Properties of Petroleum
Products
The Chemical Engineer*