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This unique handbook presents both the theory and application of biomass combustion and co-firing, from basic principles to industrial combustion and

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environmental impact, in a clear and comprehensive manner. It offers a solid grounding on biomass combustion, and advice on improving combustion systems. Written by leading international academics and industrial experts, and prepared under the auspices of the IEA Bioenergy

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Implementing Agreement, the handbook is an essential resource for anyone interested in biomass combustion and co-firing technologies varying from domestic woodstoves to utility-scale power generation. The book covers subjects including biomass fuel pre-treatment and

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logistics, modelling the combustion process and ash-related issues, as well as featuring an overview of the current R&D needs regarding biomass combustion.

Oil Spill Environmental Forensics Case Studies includes 34 chapters that serve to present various aspects

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of environmental forensics in relation to “real-world oil spill case studies from around the globe. Authors representing academic, government, and private researcher groups from 14 countries bring a diverse and global perspective to this volume. Oil Spill Environmental Forensics Case Studies

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addresses releases of natural gas/methane, automotive gasoline and other petroleum fuels, lubricants, vegetable oils, paraffin waxes, bitumen, manufactured gas plant residues, urban runoff, and, of course, crude oil, the latter ranging from light Bakken shale oil to heavy Canadian oil

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sands oil. New challenges surrounding forensic investigations of stray gas in the shallow subsurface, volatiles in air, dissolved chemicals in water (including passive samplers), and biological tissues associated with oil spills are included, as are the effects and long-term oil weathering, long-term

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monitoring in urbanized and non-urbanized environments, fate and transport, forensic historical research, new analytical and chemical data processing and interpretation methods. Presents cases in each chapter on the application of specific oil spill environmental forensic

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techniques Features chapters written  
by international experts from both  
academia and industry Includes  
relevant concepts and theories  
elucidated for each theme  
Student Activity Workbook

This volume is the first to give a truly  
international view on biomass. This

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international collection of contributed articles examines the use of biomass as a regenerable energy resource in a number of different countries. They look at the ways in which biomass can be used, in wood-burning stoves, as charcoal, biogas, or as liquid fuels. The influence of the uses of biomass

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upon people in developing countries and their environment is considered in detail. This volume will be a welcome addition to the library of anyone who is concerned with today's use of energy and its consequences.

ILAR News

Recent Advances in Thermochemical

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Conversion of Biomass  
Guidebook on Biogas Development  
Energy Efficient Building Design  
Science and Applications  
Anaerobic Technology in Pulp and  
Paper Industry  
The main aim of this book is to  
bridge the gap between aerobic

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and anaerobic waste treatments by concentrating on studies of earthworms. In particular, vermicomposting is being discussed as well as its properties and applications. Other subjects touch on the treatment of palm oil

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mill effluents, the various importance of earthworms, its scope and future aspects of earthworm research, and the impact of waste management practices on human health.

DNA replication is a fundamental

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part of the life cycle of all organisms. Not surprisingly many aspects of this process display profound conservation across organisms in all domains of life. The chapters in this volume outline and review the current state of

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knowledge on several key aspects of the DNA replication process. This is a critical process in both normal growth and development and in relation to a broad variety of pathological conditions including cancer. The reader will be provided

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with new insights into the initiation, regulation, and progression of DNA replication as well as a collection of thought provoking questions and summaries to direct future investigations.

Excreta and wastewater sludge are

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resources. Finding ways to put them to their best uses is part of developing sustainable human communities. But if not managed properly, excreta and sludge can be dangerous to human health and the environment. How to integrate

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theses opposing concepts is an ongoing worldwide challenge. This Atlas provides examples of how this challenge is addressed around the globe. The 59 reports provide insights into the similarities and differences in the management of

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excreta, wastewater, and biosolids in 37 countries. This compilation of information includes specific information from 19% of the member states of the United Nations, and includes representation of diverse countries

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and the full spectrum of management programs.

This book represents the first ever scientific monograph including an in-depth analysis of all major field-assisted sintering techniques. Until now, the electromagnetic field-

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assisted technologies of materials processing were lacking a systematic and generalized description in one fundamental publication; this work promotes the development of generalized concepts and of comparative

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analyses in this emerging area of materials fabrication. This book describes modern technologies for the powder processing-based fabrication of advanced materials. New approaches for the development of well-tailored and

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stable structures are thoroughly discussed. Since the potential of traditional thermo-mechanical methods of material treatment is limited due to inadequate control during processing, the book addresses ways to more accurately

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control the resultant material's structure and properties by an assisting application of electromagnetic fields. The book describes resistance sintering, high-voltage consolidation, sintering by low-voltage electric pulses

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(including spark plasma sintering), flash sintering, microwave sintering, induction heating sintering, magnetic pulse compaction and other field-assisted sintering techniques. Includes an in-depth analysis of all major field-assisted

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sintering techniques; Explains new techniques and approaches for material treatment; Provides detailed descriptions of spark plasma sintering, microwave sintering, high-voltage consolidation, magnetic pulse

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compaction, and various other approaches when field-assisted treatment is applied.

Feasibility of Very Large Scale  
Power Generation (VLS-PV)  
Systems  
Prospects of Organic Waste

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Management and the Significance  
of Earthworms

Fluid Catalytic Cracking Handbook

Global Atlas of Excreta,

Wastewater Sludge, and Biosolids

Management

Routledge Handbook of the

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Resource Nexus

Multivariate Analysis of Ecological  
Data Using CANOCO

Genetic-based animal biotechnology  
has produced new food and  
pharmaceutical products and  
promises many more advances to  
benefit humankind. These exciting

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prospects are accompanied by considerable unease, however, about matters such as safety and ethics. This book identifies science-based and policy-related concerns about animal biotechnologyâ€"key issues that must be resolved before the new breakthroughs can reach their

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potential. The book includes a short history of the field and provides understandable definitions of terms like cloning. Looking at technologies on the near horizon, the authors discuss what we know and what we fear about their effects—the inadvertent release of dangerous

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microorganisms, the safety of products derived from biotechnology, the impact of genetically engineered animals on their environment. In addition to these concerns, the book explores animal welfare concerns, and our societal and institutional capacity to manage and regulate the

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technology and its products. This accessible volume will be important to everyone interested in the implications of the use of animal biotechnology.

Ordination, experimental design, gradient analysis, permutation, similarity.

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Using a discipline-by-discipline approach, Linne & Ringsrud's Clinical Laboratory Science: Concepts, Procedures, and Clinical Applications, 7th Edition provides a fundamental overview of the skills and techniques you need to work in a clinical laboratory and perform

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routine clinical lab tests. Coverage of basic laboratory techniques includes key topics such as safety, measurement techniques, and quality assessment. Clear, straightforward instructions simplify lab procedures, and are described in the CLSI (Clinical and Laboratory Standards

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Institute) format. Written by well-known CLS educator Mary Louise Turgeon, this text includes perforated pages so you can easily detach procedure sheets and use them as a reference in the lab! Hands-on procedures guide you through the exact steps you'll

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perform in the lab. Review questions at the end of each chapter help you assess your understanding and identify areas requiring additional study. A broad scope makes this text an ideal introduction to clinical laboratory science at various levels, including CLS/MT, CLT/MLT, and

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Medical Assisting, and reflects the taxonomy levels of the CLS/MT and CLT/MLT exams. Detailed full-color illustrations show what you will see under the microscope. An Evolve companion website provides convenient online access to all of the procedures in the text, a glossary,

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audio glossary, and links to additional information. Case studies include critical thinking and multiple-choice questions, providing the opportunity to apply content to real-life scenarios. Learning objectives help you study more effectively and provide measurable outcomes to

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achieve by completing the material. Streamlined approach makes it easier to learn the most essential information on individual disciplines in clinical lab science. Experienced author, speaker, and educator Mary Lou Turgeon is well known for providing insight into the rapidly

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changing field of clinical laboratory science. Convenient glossary makes it easy to look up definitions without having to search through each chapter. NEW! Procedure worksheets have been added to most chapters; perforated pages make it easy for students to remove for use

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in the lab and for assignment of review questions as homework.

NEW! Instrumentation updates show new technology being used in the lab. NEW! Additional key terms in each chapter cover need-to-know terminology. NEW! Additional tables and figures in each chapter clarify

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clinical lab science concepts.

This book presents new application processes in the context of anaerobic digestion (AD), such as phosphorus recovery, microbial fuel cells (MFCs), and seaweed digestion. In addition, it introduces a new technique for the modeling and optimization of AD

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processes. Chapters 1 and 2 review AD as a technique for converting a range of organic wastes into biogas, while Chapter 3 discusses the recovery of phosphorus from anaerobically digested liquor. Chapters 4 and 5 focus on new techniques for modeling and

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optimizing AD. Chapters 6 and 7 then describe the state of the art in AD effluent treatment. The book's final three chapters focus on more recent developments, including microbial fuel cells (MFCs) (Chapter 8), seaweed production (Chapter 9), and enzyme technologies (Chapter

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10).

Impact on Intelligent Logistics and  
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for the Future  
The Mechanisms of DNA Replication

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Handbook of Advanced Approaches  
Towards Pollution Prevention and  
Control

Glencoe Health, Student Activity  
Workbook

**In recent years the concept of the  
resource "nexus" has been both**

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**hotly debated and widely adopted in research and policy circles. It is a powerful new way to understand and better govern the myriad complex relationships between multiple resources, actors and their security concerns. Particular**

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**attention has been paid to water, energy and food interactions, but land and materials emerge as critical too. This comprehensive handbook presents a detailed review of current knowledge about resource nexus-related**

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**frameworks, methods and governance, including a broad set of inter-disciplinary perspectives. Written by an international group of scholars and practitioners, the volume focuses on rigorous research, including tools, methods**

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**and modelling approaches to analyse resource use patterns across societies and scales from a "nexus perspective". It also provides numerous examples from political economy to demonstrate how resource nexus**

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**frameworks can illuminate issues such as land grabs, mining, renewable energy and the growing importance of economies such as China, as well as to propose lessons and outlooks for sound governance. The volume seeks to**

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**serve as an essential reference text, source book and state-of-the-art, science-based assessment of this increasingly important topic – the resource nexus – and its utility in efforts to enhance sustainability of many kinds and**

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**implement the United Nations Sustainable Development Goals in an era of environmental and geopolitical change.**

**This book provides general information and data on one of the most promising renewable**

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**energy sources: biomass for its thermochemical conversion. During the last few years, there has been increasing focus on developing the processes and technologies for the conversion of biomass to liquid and gaseous**

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**fuels and chemicals, in particular to develop low-cost technologies. This book provides date-based scientific information on the most advanced and innovative processing of biomass as well as the process development elements**

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**on thermochemical processing of biomass for the production of biofuels and bio-products on (biomass-based biorefinery). The conversion of biomass to biofuels and other value-added products on the principle biorefinery offers**

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**potential from technological perspectives as alternate energy. The book covers intensive R&D and technological developments done during the last few years in the area of renewable energy utilizing biomass as feedstock and**

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**will be highly beneficial for the researchers, scientists and engineers working in the area of biomass-biofuels- biorefinery. Provides the most advanced and innovative thermochemical conversion technology for biomass**

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**Provides information on large scales such as thermochemical biorefinery Useful for researchers intending to study scale up Serves as both a textbook for graduate students and a reference book for researchers Provides information**

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**on integration of process and  
technology on thermochemical  
conversion of biomass**

**This open access book, written by  
world experts in aquaponics and  
related technologies, provides the  
authoritative and comprehensive**

*Page 62/138*

**overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer**

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**alternative technology solutions  
for a world that is increasingly  
under stress through population  
growth, urbanisation, water  
shortages, land and soil  
degradation, environmental  
pollution, world hunger and**

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**climate change.**

**Management of New Zealand's environment needs to be based on sound knowledge. Natural resource managers and policy makers now have at their fingertips the first comprehensive**

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**assessment of the state of  
ecosystem services - the benefits  
people obtain from nature - in this  
country. More than 100 of New  
Zealand's leading scientists and  
academics have penned the 36  
chapter for the new 540-page**

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**book. Ecosystem services are categorised as 'provisioning', such as food, timber and freshwater; 'regulating', such as air quality, climate and pest regulation; 'cultural' such as recreation and sense of belonging; and**

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**'supporting', such as soil quality  
and natural habitat resistance to  
weeds.**

**Environmental Technologies to  
Treat Sulfur Pollution**

**The Handbook of Biomass  
Combustion and Co-firing**

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**Regenerable Energy**  
**Glencoe Health**  
**Science-Based Concerns**  
**Fuel from Farms**

*This book focuses on solar-  
energy-based renewable  
energy systems and discusses*

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*the generation of electric power using solar photovoltaics, as well as some new techniques, such as solar towers, for both residential and commercial needs. Such systems have played an important role in*

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*the move towards low-emission and sustainable energy sources. The book covers a variety of applications, such as solar water heaters, solar air heaters, solar drying, nanoparticle-based direct*

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*absorption solar systems,  
solar volumetric receivers,  
solar-based cooling systems,  
solar-based food processing  
and cooking, efficient  
buildings using solar  
energy, and energy storage  
for solar thermal systems.*

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*Given its breadth of coverage, the book offers a valuable resource for researchers, students, and professionals alike.*

*Aquaponics Food Production Systems Combined Aquaculture and Hydroponic Production*

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*Technologies for the  
FutureSpringer  
This thoroughly updated  
edition of Fluid Catalytic  
Cracking Handbook provides  
practical information on the  
design, operation,  
troubleshooting, and*

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*optimization of fluid catalytic cracking (FCC) facilities. Based on the author's years of field experience, this expanded, second edition covers the latest technologies to improve the profitability*

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*and reliability of the FCC units, and provides several "no-to-low-cost" practical recommendations. A new chapter supplies valuable recommendations for debottlenecking and optimizing the performance*

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*of cat cracker operations.  
With pressure increasing to  
utilise wastes and residues  
effectively and sustainably,  
the production of biogas  
represents one of the most  
important routes towards  
reaching national and*

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*international renewable energy targets. The biogas handbook: Science, production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and*

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*technology. Following a concise overview of biogas as an energy option, part one explores biomass resources and fundamental science and engineering of biogas production, including feedstock characterisation,*

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*storage and pre-treatment,  
and yield optimisation.  
Plant design, engineering,  
process optimisation and  
digestate utilisation are  
the focus of part two.  
Topics considered include  
the engineering and process*

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*control of biogas plants,  
methane emissions in biogas  
production, and biogas  
digestate quality,  
utilisation and land  
application. Finally, part  
three discusses  
international experience and*

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*best practice in biogas utilisation. Biogas cleaning and upgrading to biomethane, biomethane use as transport fuel and the generation of heat and power from biogas for stationery applications are all discussed. The book*

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*concludes with a review of market development and biomethane certification schemes. With its distinguished editors and international team of expert contributors, The biogas handbook: Science,*

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*production and applications  
is a practical reference to  
biogas technology for  
process engineers,  
manufacturers, industrial  
chemists and biochemists,  
scientists, researchers and  
academics working in this*

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*field. Provides a concise  
overview of biogas as an  
energy option Explores  
biomass resources for  
production Examines plant  
design and engineering and  
process optimisation  
Foundations of Topology*

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*Animal Biotechnology*

*Belle Morte*

*Oil Spill Environmental*

*Forensics Case Studies*

*Quick Calculus*

*An Expert Guide to the  
Practical Operation, Design,  
and Optimization of FCC*

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*Units*

*This book is the result of recent research that deals with the built environment and innovative materials, carried out by specialists working in universities and centers of research in different professional fields ?*

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*architecture, engineering, physics ?  
and in an area that that spans from  
the Mediterranean Sea to the Persian  
Gulf, and from South Eastern Europe  
to the Middle East. This book takes  
the necessity of re-shaping the concept  
of building design in order to*

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*transform buildings from large scale energy consumers to energy savers and producers into consideration. The book is organized in two parts: theory and case studies. For the theoretical part, we chose from the wide range of sources that provide energy efficient*

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*materials and systems the two that seem to be endless: the sun and vegetation. Their use in building products represents a tool for specialists in the architectural design concept. The case-studies presented analyze different architectural*

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*programs, in different climates, from new buildings to rehabilitation approaches and from residential architecture to hospitals and sports arenas; each case emphasizes the interdisciplinarity of the building design activity in order to help readers*

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*gain a better understanding of the complex approach needed for energy efficient building design*

*Topology is a branch of pure mathematics that deals with the abstract relationships found in geometry and analysis. Written with*

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*the mature student in mind, Foundations of Topology, Second Edition, provides a user-friendly, clear, and concise introduction to this fascinating area of mathematics. The author introduces topics that are well-motivated with thorough proofs, that*

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*make them easy to follow. Historical comments are dispersed throughout the text, and exercises, varying in degree of difficulty, are found at the end of each chapter. Foundations of Topology is an excellent text for teaching students how to develop the*

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*skills for writing clear and precise proofs.*

*The objectives of this study are to assess the role of small ruminants (sheep and goats) in the food production systems of developing countries, examine their advantages*

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*and disadvantages, analyze the constraints limiting their further contribution to the welfare of small farm/low income rural producers, prescribe measures for overcoming these constraints, and make recommendations related to potential*

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*donor involvement in support of the development of sheep and goat production. Small ruminants are viewed as an integral, but not dominant component of complex agricultural systems. Particular emphasis is placed on sheep and goats*

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*in mixed herds grazing dry rangelands and in small mixed farm systems in medium to high rainfall areas. An analysis of major constraints -- ecological, biological, policy, and socio-economic -- leads to recommendations on the need for a*

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*balanced production system approach for research, training and development programs, and for a combination of support activities such as herd health programs, and formulation of favorable credit, marketing and pricing policies for*

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*small ruminants and their products.  
Handbook of Advanced Approaches  
towards Pollution Prevention and  
Control, Volume Two: Legislative  
Measures and Sustainability for  
Pollution Prevention and Control  
condenses all relevant information on*

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*pollution prevention and control in a single source. This handbook (Volume Two of Two) covers the principals of pollution prevention and control technologies, recent advances in pollution prevention, control technologies and their sustainability,*

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*modernization in pollution prevention and control technologies for future and next generation of pollution prevention and control technologies. The book is an indispensable resource for researchers and academic staff in chemical and process engineering,*

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*safety engineering, environmental engineering, biotechnology, and materials engineering. Provides in-depth information on the principles and advances in pollution prevention and control practices Discusses emerging technologies and processes*

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*for advanced pollution prevention and control Presents developments on the use of the assessment models as tools to support the research and applications of different technologies and processes Provides history, fundamentals, state-of-the-art, and*

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*future trends Edited by expert team of  
world-class editors*

*A Self-Teaching Guide*

*Linne & Ringsrud's Clinical  
Laboratory Science - E-Book*

*Ecosystem Services in New Zealand  
The Tree Breeder*

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*Sheep and Goats in Developing  
Countries*

*The Biogas Handbook*

Thoroughly revised and  
significantly expanded,  
the Second Edition of  
Environmental Ecology

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provides new case studies and in-depth treatment of the effects of pollution and other disturbances on our oceans, lakes, forests, and air. New chapters on

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biological resources and ecological applications have been added, including material on environmental economics, import assessments, ecological monitoring,

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and environmental ethics. Extensive indexes, a glossary, and a bibliography are included.

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Edition A Self-Teaching

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Guide Calculus is essential for understanding subjects ranging from physics and chemistry to economics and ecology.

Nevertheless, countless

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students and others who need quantitative skills limit their futures by avoiding this subject like the plague. Maybe that's why the first edition of this self-

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teaching guide sold over 250,000 copies. Quick Calculus, Second Edition continues to teach the elementary techniques of differential and integral calculus

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quickly and painlessly.  
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will rapidly disappear  
as you work at your own  
pace on a series of  
carefully selected work  
problems. Each correct

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answer to a work problem leads to new material, while an incorrect response is followed by additional explanations and reviews. This updated edition

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incorporates the use of calculators and features more applications and examples. ".makes it possible for a person to delve into the mystery of calculus without

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being mystified."

--Physics Teacher

This second edition is fully updated with new material to create a comprehensive and accessible reference

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book: New chapters on sulfur removal via bioelectrochemical systems, use of sulfate radicals in advanced oxidation processes and sulfur nanoparticle

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biosynthesis. New sections on: sulfur cycle chemistry and microbiology; sulfate removal vs. recovery of resources from sulfate-rich wastewaters;

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microaeration for biogas  
desulfurisation;  
biological treatment of  
gypsum and sulfur-rich  
solid waste; up-to-date  
process control for  
treatment of sulfur-rich

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waste streams. New case studies with emphasis on practices for sewer and steel corrosion control, odour mitigation, autotrophic denitrification and

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bioremediation of acid mine polluted sites in both developed and developing countries have been included. Novel concepts of environmental

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technologies to treat sulfur pollution of wastewater, off-gases, solid waste, soils and sediments are presented. Up-to-date research findings and innovative

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technologies for recovering resources, i.e. metals, fertiliser, biofuels and irrigation water, from sulfur polluted waste are provided. This book may

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serve both as an advanced textbook for undergraduate and graduate students majoring in environmental sciences, technology or

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engineering as well as a handbook for tertiary educators, researchers, professionals and policymakers who conduct research and practices in the sulfur related

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fields. It is essential reading for consulting companies when dealing with sulfur related environmental (bio)technologies. High surface area, a

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microporous structure,  
and a high degree of  
surface reactivity make  
activated carbons  
versatile adsorbents,  
particularly effective  
in the adsorption of

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organic and inorganic  
pollutants from aqueous  
solutions. Activated  
Carbon Adsorption  
introduces the  
parameters and  
mechanisms involved in

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the activated carbon  
adsorption  
principles and  
engineering  
Environmental Ecology  
Energy from the Desert  
Field-Assisted Sintering

**File Type PDF Biodigest  
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The Ecological Effects  
of Pollution,  
Disturbance, and Other  
Stresses

This book presents a state-of-the-art  
report on the treatment of pulp and

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paper industry effluents using anaerobic technology. It covers a comprehensive range of topics, including the basic reasons for anaerobic treatment, comparison between anaerobic and aerobic treatment, effluent types suitable for anaerobic treatment, design

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considerations for anaerobic treatment, anaerobic reactor configurations applied for treatment of pulp and paper industry effluents, present status of anaerobic treatment in pulp and paper industry, economic aspects, examples of full scale installations and future trends.

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The world's deserts are sufficiently large that, in theory, covering a fraction of their landmass with PV systems could generate many times the current primary global energy supply. In three parts, this study details the background and concept of VLS-PV, maps out a development path

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towards the realization of VLS-PV systems and provides firm recommendations to achieve long-term targets. This represents the first study to provide a concrete set of answers to the questions that must be addressed in order to secure and exploit the potential for VLS-PV

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technology and its global benefits.  
Decision to produce; Markets and  
uses; Market assessment; Production  
potential; Equipment selection;  
Financial requirements; Decision and  
planning workssheets; Basic ethanol  
production; Preparation of feedstocks,  
Fermentation; Distillation; Types of

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feedstocks; Coproduct yields;  
Agronomic considerations; Plant  
design; Overall plant considerations;  
Process control; Representative  
ethanol plant; Maintenance checklist;  
Business plan; Analysis of financial  
requirements; Organizational form;  
Financing; Case study; Summary of

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legislation; Bureau of alcohol, tobacco,  
and firearms permit information;  
Environmental considerations.

Volume 2: Legislative Measures and  
Sustainability for Pollution Prevention  
and Control

Industry 4.0

The Basics and Routine Techniques

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Laboratory Evaluation of Hand-  
operated Water Pumps for Use in  
Developing Countries  
Science, Production and Applications  
Biomass