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This illustrated history chronicles electric and hybrid cars from the late 19th century to today's fuel cell and plug-in automobiles. It describes the politics, technology, marketing strategies, and environmental issues that have impacted electric and hybrid cars' research and development. The important marketing shift from a "woman's car" to "going green" is discussed. Milestone projects and technologies such as early batteries, hydrogen and bio-mass fuel cells, the upsurge of hybrid vehicles, and the various regulations and market forces that have shaped the industry are also covered.

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Now in its fourth edition, Introduction to Internal Combustion Engines remains the indispensable text to guide you through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice is sure to help you understand internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. Introduction to Internal Combustion Engines: - Is ideal for students who are following specialist options in internal combustion engines, and also for students at earlier stages in their courses - especially with regard to laboratory work - Will be useful to practising engineers for an overview of the subject, or when they are working on particular aspects of internal combustion

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engines that are new to them - Is fully updated including new material on direct injection spark engines, supercharging and renewable fuels - Offers a wealth of worked examples and end-of-chapter questions to test your knowledge - Has a solutions manual available online for lecturers at

www.palgrave.com/engineering/stone
Advanced Biomass Gasification: New Concepts for Efficiency Increase and Product Flexibility provides a thorough overview on new concepts in biomass gasification and consolidated information on advances for process integration and combination, which could otherwise only be gained by reading a high number of journal publications. Heidenreich, Müller and Foscolo, highly respected experts in this field, start their exploration with the compact UNIQUE reactor, gasification and pyrolysis, gasification and

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combustion, and catalysts and membranes. The authors then examine biomass pre-treatment processes, taking into account the energy balance of the overall conversion process, and look into oxygen-steam gasification and solutions for air separation, including new options for integration of O₂-membranes into the gasifier. Several polygeneration strategies are covered, including combined heat and power (CHP) production with synthetic natural gas (SNG), biofuels and hydrogen, and new cutting-edge concepts, such as plasma gasification, supercritical water gasification, and catalytic gasification, which allows for insights on the future technological outlook of the area. This book is then a valuable resource for industry and academia-based researchers, as well as graduate students in the energy and chemical sectors with interest in biomass gasification, especially in areas

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of power engineering, bioenergy, chemical engineering, and catalysis. Explores state-of-the-art technologies that allow for greater efficiency and flexibility in gasification, including process integration, combination, and polygeneration strategies Consolidates information that was, up until now, scattered among several sources, including journal articles Provides a valuable resource for industry and academia-based researchers, as well as graduate students in the energy and chemical sectors with interest in biomass gasification, especially in areas of power engineering, bioenergy, chemical engineering, and catalysis

Introduces the basic principles of geography as they apply to the Hawaiian Islands, and provides maps and information about Hawaiian geology, ecology, people, and economy.

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The Rocket Mass Heater Builder's Guide

Desert Or Paradise

A Beginners Guide

How to Brew Your Own Fuel

Learning from Accidents

From Anticipation to Action

Biodiesel

This volume throws light on the Sick Building Syndrome in Libraries and other public buildings, and the extent to which it is influenced by the internal environment of libraries.

One of the signs of this disease is that the person suffers from a set of symptoms closely related to his/her presence in the building, without the identification of any clear causes, and his/her relief of these symptoms when he/she are out of the building. Hence, the book sheds on the extent to which the interior environment

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impacts upon the health of the people, and the extent to which this is reflected in their performance.

The book can be used for teaching, research, and professional reference.

It concludes with the recommendation that is essential to observe environmental dimensions when designing library and public buildings, taking into consideration the expected impact of SBS in library and public buildings on people. The significance of the book derives from the fact that it is the first of its kind to examine the issue of the interior environment and SBS of library and public building worldwide.

The essential how-to book on making and using ethanol as an alternative

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renewable fuel.

NEW 3rd EDITION - 2 BOOK SET

Got wood? Transform your tree branches and scrap lumber into wood gas in just minutes. Make fuel and power when others can't, so you can: Run generators Fuel older vehicles & gas tractors Heat greenhouses Pump well water Fire up kilns & forges Make activated charcoal for water purification Go off grid and shelter in! Not all gasifiers are created equally Build a high quality wood gasifier the first time. Professional grade plans from an industry expert, reworked in commonly available materials for the home fabricator and DIY'er: 500 + photos Step-by-step construction plans Parts list Hearth sizing chart

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(critical) Engineering diagrams & energy calculations Troubleshooting checklist Theory of operation Terminology explained Material selection & budgets Engine selection Bonus Electronic Carburetor book Woodgas wisdom Fuel is freedom The Wood Gasifier Builder's Bible is a complete set of construction plans to build a wood gasifier with step by step schematics and hundreds of pictures, part lists, budgets, material selection and much more. With a wood gasifier you hold the keys to modern civilization. Secure your homestead & rest in peace no matter what the future holds. Get back to basics and ride out the storm or start a home based business fabricating "free energy" tools for your friends

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and neighbors. Specifications Perfect for 500 cc - 5 liter spark ignited gasoline engines. 2.5 lbs per kilowatt/hr @ 3600 rpm. Runs on wood chunks. Use a bandsaw/table saw to make wood chunks. Does NOT run on wood pellets.

Sustainability defines the need for any society to live within the constraints of the land's capacity to deliver all natural resources the society consumes. This book compares the general differences between Native Americans and western world view towards resources. It will provide the 'nuts and bolts' of a sustainability portfolio designed by indigenous peoples. This book introduces the ideas on how to link nature and

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society to make sustainable choices. To be sustainable, nature and its endowment needs to be linked to human behavior similar to the practices of indigenous peoples. The main goal of this book is to facilitate thinking about how to change behavior and to integrate culture into thinking and decision-processes.

Alcohol Fuel

in Public Buildings and Workplaces
Transforming Agriculture and
Environment

Handbook of Biomass Downdraft
Gasifier Engine Systems

Wood Gasifier Builder's Bible

Americans and Climate Change

Introduction to Internal Combustion
Engines

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This is the fifteenth volume in the series of Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased.

Are you one of those going

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off-grid? Maybe you are operating a homestead. Do you have wood? Then you should have your gas! Keep reading to discover more about it! It is time that you change your scrap lumber and tree branches and turn them into gaseous fuel in just a few minutes. You can now make fuel and power when others cannot! Inside the book *Wood Gasifier: A Step-By-Step Guide on How to Build Your Own Wood Gasification System*, you will learn everything you need to know about creating and building a wood gasifier. Creating a gasifier appears to be a never-ending stream of

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concerns for a beginner like you. Wouldn't it be good if there was a guide for you to learn how wood gasifiers work without all the technical words which confuse many novices? In this manual, you will find many simple explanations and diagrams that detail the different designs and the chemical processes that happen inside the wood gasifier itself. Designed especially for beginners like you, this book covers all the needed information you need to get started in your wood gasification. It includes: What is a gasifier? How does a wood gasifier work? What parts do

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you need for wood gasification? What you can do with a wood gasifier Step-by-step construction of a wood gasifier ...And much, much more! This book is a complete set of all the construction plans you need to create a wood gasifier along with detailed schematics and images, budgets, part lists, material selection, and much more. So, what are you waiting for? Click the BUY NOW button and grab a copy of this book today!

How to harvest water and nutrients, select drought-tolerant plants, and create natural diversity Because climatic uncertainty has now

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become "the new normal," many farmers, gardeners and orchard-keepers in North America are desperately seeking ways to adapt their food production to become more resilient in the face of such "global weirding." This book draws upon the wisdom and technical knowledge from desert farming traditions all around the world to offer time-tried strategies for: Building greater moisture-holding capacity and nutrients in soils Protecting fields from damaging winds, drought, and floods Harvesting water from uplands to use in rain gardens and terraces filled

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with perennial crops
Delecting fruits, nuts,
succulents, and herbaceous
perennials that are best
suited to warmer, drier
climates Gary Paul Nabhan is
one of the world's experts
on the agricultural
traditions of arid lands.
For this book he has visited
indigenous and traditional
farmers in the Gobi Desert,
the Arabian Peninsula, the
Sahara Desert, and
Andalusia, as well as the
Sonoran, Chihuahuan, and
Painted deserts of North
America, to learn firsthand
their techniques and designs
aimed at reducing heat and
drought stress on orchards,
fields, and dooryard

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gardens. This practical book also includes colorful "parables from the field" that exemplify how desert farmers think about increasing the carrying capacity and resilience of the lands and waters they steward. It is replete with detailed descriptions and diagrams of how to implement these desert-adapted practices in your own backyard, orchard, or farm. This unique book is useful not only for farmers and permaculturists in the arid reaches of the Southwest or other desert regions. Its techniques and prophetic vision for achieving food security in the face of

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climate change may well need to be implemented across most of North America over the next half-century, and are already applicable in most of the semiarid West, Great Plains, and the U.S. Southwest and adjacent regions of Mexico.

Methane or biogas is a colourless, odourless, flammable gas and the main constituent, 85% to 90%, of the piped natural gas that we use in our homes in the UK, Europe and the USA.

Methane can be made using simple apparatus and a process known as anaerobic digestion. Anaerobic digestion is one of the most common biological procedures

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in nature, as the name implies, it means to carry or breakdown in the absence of air. Once you know the principles of this process it is possible to make biogas in small or large quantities from a variety of waste materials. The book describes making an anaerobic digester using an oil drum and a rubber inner tube as the gas storage vessel as well as a larger continuous digester. The book also contains diagrams, list of materials and websites for further reading. The gas produced can be used for cooking and heating and even for running a gas engine.

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Growing Food in a Hotter,
Drier Land

Electric and Hybrid Cars

Sustainable Urban

Environments

A Manual on the Hydraulic

Ram for Pumping Water

How to Make Biogas. Three

Simple Anaerobic Digesters

Brown's Alcohol Motor Fuel

Cookbook

The River of Life

This contributed volume provides

11 illustrative case studies of

technological transformation in

the global pulp and paper

industry from the inception of

mechanical papermaking in early

nineteenth century Europe until

its recent developments in

today's business environment with rapidly changing market dynamics and consumer behaviour. It deals with the relationships between technology transfer, technology leadership, raw material dependence, and product variety on a global scale. The study itemises the main drivers in technology transfer that affected this process, including the availability of technology, knowledge, investments and raw materials on the one hand, and demand characteristics on the other hand, within regional, national and transnational organisational frameworks. The

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volume is intended as a basic introduction to the history of papermaking technology, and it is aimed at students and teachers as course material and as a handbook for professionals working in either industry, research centres or universities. It caters to graduate audiences in forestry, business, technical sciences, and history.

Part One contains details of how to make and maintain a small hydraulic ram on a suitable site, whilst Part Two takes a more technical look at ram performances and design considerations and also contains a useful bibliography.

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Biodiesel Basics and Beyond aims to separate fact from fiction and to educate potential home, farm, and cooperative manufacturers on the economic production of quality biodiesel from both waste and virgin oil feedstock. The book includes: detailed processes and equipment required to produce biodiesel fuel that meets North American standards how farmers can use excess oilseed as a feedstock for biodiesel production the use of the co-byproduct glycerin in the making of soap a guide to numerous reference materials and a list of supplier data This is North

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America's definitive guide to responsibly producing biodiesel from waste vegetable oil while minimizing your environmental footprint in the process.

Part I of this report is a synthesis that highlights eight selected themes, each of which relates to diagnoses, recommendations, and important lines of debate or inquiry. Part II describes the diagnoses and 39

recommendations from the eight working groups.

Progress in Clean Energy,
Volume 2

Standing up for a Sustainable
World

The Biochar Revolution

Scientific Proof of Flesh & Blood
Gods

Sustainable Practices of Native
Americans and Indigenous
Peoples

How Canadians Communicate IV
The Compost-Powered Water
Heater: How to heat your
greenhouse, pool, or buildings
with only compost!

Despite the vital
importance of the
emerging area of
biotechnology and its
role in defense planning
and policymaking, no
definitive book has been
written on the topic for
the defense policymaker,

the military student,
and the private-sector
bioscientist interested
in the "emerging
opportunities market" of
national security. This
edited volume is
intended to help close
this gap and provide the
necessary backdrop for
thinking strategically
about biology in defense
planning and
policymaking. This
volume is about
applications of the
biological sciences,
here called
"biologically inspired

innovations," to the military. Rather than treating biology as a series of threats to be dealt with, such innovations generally approach the biological sciences as a set of opportunities for the military to gain strategic advantage over adversaries. These opportunities range from looking at everything from genes to brains, from enhancing human performance to creating renewable energy, from sensing the environment

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around us to harnessing
its power.

Discover the lost art of
do-it-yourself well
drilling on the cheap,
and learn how to use
common materials to
fabricate percussion
bits, sludging pipes,
bailer valves, casings,
screens, and much more.
Included are step-by-
step instructions for
how to rig and operate
these low-tech drilling
devices to create a
private water well up to
100 feet deep. Jam-
packed with

instructional diagrams,
photos, and
illustrations that
provide easy-to-follow
directions, this book
provides the appropriate
level of detail to
empower even beginners
to embark on their own
well projects. Sections
include: Percussion
Drilling to Create a
Well Hole, Sludging
(Reverse Jetting) to
Create a Well Hole, Hand
Auger to Create a Well
Hole, Drive Points for
Creating Ready-Made
Wells, Casing and

Finishing Bored Well
Holes, Water Flow
Development of New
Wells, and Hydrology
Basics and Locating
Groundwater.

Make your own fuel, for
a fraction of what you
would pay at the pump.
Small-scale home
biodiesel production
holds a singular
attraction for the do-it-
yourself enthusiast.
While perhaps it can't
save the world, this
unique renewable fuel is
economical, fun to make,
better for the

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environment, and will help you reduce your dependence on Big Oil. And getting started is easier than you think. Backyard Biodiesel is written by two recognized experts in the field of small-scale biofuels. This comprehensive hands-on, practical, DIY guide includes: The basics of small-scale brewing-recipes, strategies, and technologies Advanced backyard analytics and troubleshooting Safety considerations and

regulatory issues

Topping up the tank-how
to put your biodiesel to
work for you. Making
your own fuel is not
only possible, it is
rewarding. Designed to
be accessible to
everyone from readers
with no prior technical
expertise to alternative
energy buffs, Backyard
Biodiesel is a must-read
for any aspiring brewer,
packed with everything
you need to get up and
running quickly and
safely.

Substantial changes have

occurred in the nature of political discourse over the past thirty years. Once, traditional media dominated the political landscape, but in recent years Facebook, Twitter, blogs and Blackberrys have emerged as important tools and platforms for political campaigns. While the Canadian party system has proved surprisingly resilient, the rhythms of political life are now very different. A never-ending 24-hour news

cycle has resulted in a never-ending political campaign. The implications of this new political style and its impact on political discourse are issues vigorously debated in this new volume of *How Canadians Communicate*, as is the question on every politician's mind: How can we draw a generation of digital natives into the current political dialogue? With contributions from such diverse figures as Elly Alboim, Richard Davis,

Tom Flanagan, David
Marshall, and Roger Epp,
How Canadians
Communicate IV is the
most comprehensive
review of political
communication in Canada
in over three decades -
one that poses questions
fundamental to the
quality of public life.
David Taras holds the
Ralph Klein Chair in
media studies at Mount
Royal University. He
served as an expert
advisor to the House of
Commons Standing
Committee on Canadian

Heritage and co-edited the first two volumes in the How Canadians Communicate series. He is the co-author of The Last Word: Media Coverage of the Supreme Court of Canada.

Christopher Waddell is director of the School of Journalism and Communication at Carleton University and holds the Carty Chair in business and financial journalism. He was formerly national editor for The Globe and Mail and Parliamentary bureau

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chief for CBC television
news.

More Than 10,000 Idioms
and Collocations

Advanced Biomass
Gasification

Wood Gasifier

Low-tech Well-drilling
Techniques and Tools

Off Grid Fuel for the
Prepared Homestead: Wood
Gas in Minutes

New Concepts for
Efficiency Increase and
Product Flexibility

Phytoremediation

Potential of Bioenergy
Plants

The urban environment – buildings,

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cities and infrastructure – represents one of the most important contributors to climate change, while at the same time holding the key to a more sustainable way of living. The transformation from traditional to sustainable systems requires interdisciplinary knowledge of the re-design, construction, operation and maintenance of the built environment. Sustainable Urban Environments: An Ecosystem Approach presents fundamental knowledge of the built environment. Approaching the topic from an ecosystems perspective, it shows the reader how to combine diverse practical elements into sustainable solutions for future buildings and cities. You'll learn to connect problems and solutions at different spatial scales, from urban ecology to material, water and energy

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use, from urban transport to livability and health. The authors introduce and explore a variety of governance tools that support the transformation process, and show how they can help overcome institutional barriers. The book concludes with an account of promising perspectives for achieving a sustainable built environment in industrialized countries. Offering a unique overview and understanding of the most pressing challenges in the built environment, Sustainable Urban Environments helps the reader grasp opportunities for integration of knowledge and technologies in the design, construction and management of the built environment. Students and practitioners who are eager to look beyond their own fields of interest will appreciate this book because of its depth and breadth of coverage.

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What is a Gasifier? How does it work? How do you build one? What parts do you need? What type of fan do you need? What does the fan do? Where does the fan go? Building a gasifier seems to be one never ending stream of questions for the beginner. Wouldn't it be nice if there was a book that answered these questions for you? Well there is and this is it! All the basic details needed for you to understand how gasifiers work without the technical jargon that confuses most beginners. There is a multitude of diagrams & simple explanations detailing the different designs and the chemical processes that occur inside the gasifier itself. Written especially for the beginner this book holds all the necessary information that you will need to get started in wood gasification.

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The world has witnessed extraordinary economic growth, poverty reduction and increased life expectancy and population since the end of WWII, but it has occurred at the expense of undermining life support systems on Earth and subjecting future generations to the real risk of destabilising the planet. This timely book exposes and explores this colossal environmental cost and the dangerous position the world is now in. Standing up for a Sustainable World is written by and about key individuals who have not only understood the threats to our planet, but also become witness to them and confronted them.

Starting a small scale farm is the dream of Americans young and old, from those who watched the majesty of the great western farm in films during their youth to those who spent their

childhood actually working on a farm. However, for many of these individuals it is a matter of logistics and cost that keeps them from realizing their dreams. Raising beef cattle, ducks, rabbits, and any other small animals such as sheep, goats, or chickens takes not only a decent amount of money to get started, but know how that doesn't come in textbooks while in school. This book was written with the intent of providing anyone who has ever wanted to start their own small scale farm the necessary resources and information needed to start raising small animals and cattle. You will learn everything you need to know to raise a wide variety of small animals. You will learn how to care for chickens, from choosing the right breed to raising them for egg production. You will learn how to handle geese and ducks,

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choosing the correct breeds, feeding, housing, breeding, and selecting the right ones for egg production. You will also learn about egg incubation, maintaining poultry health, and how raise them for meat. Other animals you will learn how to care for include rabbits, goats, sheep, dairy cows, and beef cattle. Small farmers and animal experts have been interviewed in detail and their responses added to this book to provide additional insight into every aspect of raising farm animals. This includes details about how to purchase, house, feed, breed, record, and butcher animals of all types as well as how to gather milk, use goats and cows for maintaining your fields, and even keeping records of births and selling babies. Everything you might need to know about raising small animals for your farm is included in this

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guide to provide you the first steps to raising domesticated poultry and livestock. Atlantic Publishing is a small, independent publishing company based in Ocala, Florida. Founded over twenty years ago in the company president's garage, Atlantic Publishing has grown to become a renowned resource for non-fiction books. Today, over 450 titles are in print covering subjects such as small business, healthy living, management, finance, careers, and real estate. Atlantic Publishing prides itself on producing award winning, high-quality manuals that give readers up-to-date, pertinent information, real-world examples, and case studies with expert advice. Every book has resources, contact information, and web sites of the products or companies discussed.

Sick Building Syndrome

*Basics and Beyond : a Comprehensive
Guide to Production and Use for the
Home and Farm*

A Dictionary of Confusable Phrases

Voices of Change

Student Atlas of Hawaii

Media and Politics

*A Guide to Making and Using Ethanol
as a Renewable Fuel*

*Covering over 10,000 idioms
and collocations characterized
by similarity in their wording or
metaphorical idea which do not
show corresponding similarity
in their meanings, this
dictionary presents a unique
cross-section of the English
language. Though it is designed
specifically to assist readers in*

avoiding the use of inappropriate or erroneous phrases, the book can also be used as a regular phraseological dictionary providing definitions to individual idioms, clichés, and set expressions. Most phrases included in the dictionary are in active current use, making information about their meanings and usage essential to language learners at all levels of proficiency.

Now part of the HBO docuseries "Exterminate All the Brutes," written and directed by Raoul Peck 2015 Recipient of the American Book Award The

first history of the United States told from the perspective of indigenous peoples Today in the United States, there are more than five hundred federally recognized Indigenous nations comprising nearly three million people, descendants of the fifteen million Native people who once inhabited this land. The centuries-long genocidal program of the US settler-colonial regimen has largely been omitted from history. Now, for the first time, acclaimed historian and activist Roxanne Dunbar-Ortiz offers a history of the United States told from the perspective of

Indigenous peoples and reveals how Native Americans, for centuries, actively resisted expansion of the US empire. With growing support for movements such as the campaign to abolish Columbus Day and replace it with Indigenous Peoples' Day and the Dakota Access Pipeline protest led by the Standing Rock Sioux Tribe, An Indigenous Peoples' History of the United States is an essential resource providing historical threads that are crucial for understanding the present. In An Indigenous Peoples' History of the United States, Dunbar-

Ortiz adroitly challenges the founding myth of the United States and shows how policy against the Indigenous peoples was colonialist and designed to seize the territories of the original inhabitants, displacing or eliminating them. And as Dunbar-Ortiz reveals, this policy was praised in popular culture, through writers like James Fenimore Cooper and Walt Whitman, and in the highest offices of government and the military. Shockingly, as the genocidal policy reached its zenith under President Andrew Jackson, its ruthlessness was best articulated by US Army

general Thomas S. Jesup, who, in 1836, wrote of the Seminoles: "The country can be rid of them only by exterminating them." Spanning more than four hundred years, this classic bottom-up peoples' history radically reframes US history and explodes the silences that have haunted our national narrative. An *Indigenous Peoples' History of the United States* is a 2015 PEN Oakland-Josephine Miles Award for Excellence in Literature. This expansive reference provides readers with the broadest available single-volume coverage of leading-

edge advances in the development and optimization of clean energy technologies. From innovative biofuel feed stocks and processing techniques, to novel solar materials with record-breaking efficiencies, remote-sensing for offshore wind turbines to breakthroughs in high performance PEM fuel cell electrode manufacturing, phase change materials in green buildings to bio sorption of pharmaceutical pollutants, the myriad exciting developments in green technology described in this book will provide inspiration and information to

researchers, engineers and students working in sustainability around the world. Review of previous edition: "Trevor Kletz's book makes an invaluable contribution to the systematic, professional and scientific approach to accident investigation". The Chemical Engineer Fully revised and updated, the third edition of Learning from Accidents provides more information on accident investigation, including coverage of accidents involving liquefied gases, building collapse and other incidents that have occurred because faults were invisible

(e.g. underground pipelines).

By analysing accidents that have occurred Trevor Kletz shows how we can learn and thus be better able to prevent accidents happening again. Looking at a wide range of incidents, covering the process industries, nuclear industry and transportation, he analyses each accident in a practical and non-theoretical fashion and summarises each with a chain of events showing the prevention and mitigation which could have occurred at every stage. At all times Learning from Accidents, 3rd Edition emphasises cause and

prevention rather than human interest or cleaning up the mess. Anyone involved in accident investigation and reporting of whatever sort and all those who work in industry, whether in design, operations or loss prevention will find this book full of invaluable guidance and advice.

*Closing the Gap Between
Science and Action*

*Technological Transformation
in the Global Pulp and Paper
Industry 1800-2018*

*Bio-Inspired Innovation and
National Security*

*Proceedings of the 1st
International Conference on*

*Smart Innovation, Ergonomics
and Applied Human Factors
(SEAHF)*

*An Ecosystem Approach
Gasifiers Wood Gasification and
Off Grid Power
A History, 2d ed.*

The globally escalating population necessitates production of more goods and services to fulfil the expanding demands of human beings which resulted in urbanization and industrialization.

Uncontrolled industrialization caused two major problems - energy crisis and accelerated environmental

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pollution throughout the world. Presently, there are technologies which have been proposed or shown to tackle both the problems. Researchers continue to seek more cost effective and environmentally beneficial pathways for problem solving. Plant kingdom comprises of species which have the potential to resolve the couple problem of pollution and energy. Plants are considered as a potential feedstock for development of renewable energy through biofuels. Another important aspect

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of plants is their capacity to sequester carbon dioxide and absorb, degrade, and stabilize environmental pollutants such as heavy metals, poly-aromatic hydrocarbons, poly-aromatic biphenyls, radioactive materials, and other chemicals. Thus, plants may be used to provide renewable energy generation and pollution mitigation. An approach that could amalgamate the two aspects can be achieved through phytoremediation (using plants to clean up polluted soil and water),

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and subsequent generation of energy from the phyto-remediator plants. This would be a major advance in achieving sustainability that focuses on optimizing 'people' (social issues), 'planet' (environmental issues), and 'profit' (financial issues). The "Phytoremediation-Cellulosic Biofuels" (PCB) process will be socially beneficial through reducing pollution impacts on people, ecologically beneficial through pollution abatement, and economically viable

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through providing revenue that supplies an energy source that is renewable and also provides less dependence on importing foreign energy (energy-independence). The utilization of green plants for pollution remediation and energy production will also tackle some other important global concerns like global climate change, ocean acidification, and land degradation through carbon sequestration, reduced emissions of other greenhouse gases,

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restoration of degraded lands and waters, and more. This book addresses the overall potential of major plants that have the potential to fulfil the dual purposes of phytoremediation and energy generation. The non-edible bioenergy plants that are explored for this dual objective include *Jatropha curcas*, *Ricinus communis*, *Leucaena leucocephalla*, *Milletia pinnata*, *Canabis sativa*, *Azadirachta indica*, and *Acacia nilotica*. The book addresses all possible aspects of phyto-

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remediation and energy generation in a holistic way. The contributors are one of most authoritative experts in the field and have covered and compiled the best content most comprehensively. The book is going to be extremely useful for researchers in the area, research students, academicians and also for policy makers for an inclusive understanding and assessment of potential in plant kingdom to solve the dual problem of energy and pollution. Heating with wood is often considered a natural and

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economical alternative to electricity or fossil fuels. However, even with a fairly new and efficient woodstove, many cords of wood are required for burning over the course of a single winter, and incomplete combustion can contribute to poor air quality. A rocket mass heater is an earthen masonry heating system which provides clean, safe, and efficient warmth for your home, all while using 70 to 90 percent less fuel than a traditional woodstove. These unique and beautiful

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installations provide luxurious comfort year round. In cold weather a few hours of clean, hot burning can provide twenty or more hours of steady warmth, while the unit's large thermal mass acts as a heat sink, cooling your home on sizzling summer days. Packed with hard-to-find information, The Rocket Mass Heater Builder's Guide includes: Comprehensive design, construction, and installation instructions combined with detailed maintenance and troubleshooting advice

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Brick-by-brick layouts, diagrams, and architectural plans augmented with detailed parts drawings and photographs for clarity Relevant and up-to-date code information and standards to help you navigate the approval process with local building departments Earthen masonry heating systems are well-suited for natural and conventional builders alike. A super-efficient, wood-burning, rocket mass heater can help you dramatically reduce your

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energy costs while enhancing the beauty, value, and comfort of your home. Erica Wisner and Ernie Wisner have built over seven hundred super-efficient, clean-burning masonry stoves. They are dedicated to the search for sustainable solutions and the hands-on teaching of creative, ecological, and practical skills. Sepp Holzer farms steep mountainsides in Austria 5,000 feet above sea level. His farm is an intricate network of terraces, raised beds, ponds, and waterways, well

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covered with productive fruit trees and other vegetation, in dramatic contrast to his neighbors' spruce monocultures. Fans of Sepp Holzer have come from all over the world to see the productivity of his farm, a veritable permaculture paradise. His first book, *Sepp Holzer's Permaculture*, offers a detailed guide to what Holzer has achieved on his farm. Many readers might have wondered—but how can we achieve this on a global scale? Luckily, his newest book, *Desert or Paradise*, examines

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Holzer's core philosophy for increasing food production, earth health, and reconnecting mankind with nature, applied to reforestation and water conservation across the world. Through years of consultation with other countries, Holzer has developed a core philosophy for reconnecting mankind with nature even in arid or otherwise "lost-cause" regions. He details a process he calls "Grundierung," a term from painting meaning "base coat," which goes into

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great detail the importance of water, and Desert or Paradise offers his concept and guide to construction of large water reservoirs in arid, rainfall-dependent regions with examples from Greece, Turkey, Spain, and Portugal. Holzer describes the ecological and economic benefits of these changes, as well as the use of a variety of plant and animal species for further integration and regeneration of the surrounding areas, including reasons for reforestation and the

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cause and use of forest fires. Holzer also outlines his ten points of sustainable self-reliance and how these methods can help feed the world, such as the need to regulate the water budget, eliminate factory livestock farming, bring more fallow or unused areas into production, enlarge crop areas by using terracing and Holzer-style raised beds, regionalize instead of globalize, fight for land reform and engage in community building, go back to the ancient

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farming wisdom, and change the educational system.

Also included are Holzer's ideas on beekeeping, humane slaughtering, nature spirits, the loss of roots in our society in general, and in politics especially.

Here is a revolutionary approach for heating rooms and generating hot water. Author Gaelan Brown has worked with engineers and compost scientists to refine methods of composting that can heat greenhouses, barns, buildings, and hot water, all without combustion. It

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seems almost too good to be true: make high-value organic compost while generating reliable combustion-free heat. But it works, and this book is your practical introduction. With detailed case studies of large scale engineered systems and plans for constructing small DIY systems, you'll find step-by-step illustrations and photos to guide you through the process. A review of calculations to help you estimate the heating capabilities of various approaches and

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other planning tools make this book invaluable for compost heat recovery on any scale.

The Complete Guide to Small-scale Farming
An Indigenous Peoples' History of the United States

A Step-By-Step Guide on How to Build Your Wood Gasification System. How to Make Energy and Fuel Off the Grid.

The Global Politics of Energy

Restoring Endangered Landscapes Using Water Management, Including Lake and Pond Construction

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Lessons from Desert
Farmers on Adapting to
Climate Uncertainty
A Handbook of Strategic
Prospective

This book addresses a range of real-world issues including industrial activity, energy management, education, business and health.

Today, technology is a part of virtually every human activity, and is used to support, monitor and manage equipment, facilities, commodities, industry, business, and individuals' health, among others. As technology evolves, new applications, methods and techniques arise, while at the same time citizens' expectations from technology continue to grow. In order to meet the nearly insatiable demand for new applications, better

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performance and higher reliability, trustworthiness, security, and power consumption efficiency, engineers must deliver smart innovations, i.e., must develop the best techniques, technologies and services in a way that respects human beings and the environment. With that goal in mind, the key topics addressed in this book are: smart technologies and artificial intelligence, green energy systems, aerospace engineering/robotics and IT, information security and mobile engineering, IT in bio-medical engineering and smart agronomy, smart marketing, management and tourism policy, technology and education, and hydrogen and fuel-cell energy technologies.

Black is the new Green! How to transform agriculture and the environment. A friendly, informative

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inspiring and break-through reference guide for anyone interested in biochar or concerned about environmental issues.

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The classic work that predicted the anxieties of a world upended by rapidly emerging technologies—and now provides a road map to solving many of our most pressing crises. “Explosive . . . brilliantly formulated.” —The Wall Street Journal Future Shock is the classic that changed our view of tomorrow. Its startling insights into accelerating change led a president to ask his advisers for a special report, inspired composers to write symphonies and rock music, gave a powerful new concept to social science, and added a phrase to our language. Published in over fifty countries, Future Shock is the most

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important study of change and adaptation in our time. In many ways, Future Shock is about the present. It is about what is happening today to people and groups who are overwhelmed by change. Change affects our products, communities, organizations—even our patterns of friendship and love. But Future Shock also illuminates the world of tomorrow by exploding countless clichés about today. It vividly describes the emerging global civilization: the rise of new businesses, subcultures, lifestyles, and human relationships—all of them temporary. Future Shock will intrigue, provoke, frighten, encourage, and, above all, change everyone who reads it.

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