

Do It Yourself Guide To Biodiesel

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Do It Yourself Guide to Biodiesel - Guy Purcella
2007-10-28

Provides up-to-date coverage of how to produce fuel for diesel cars and trucks inexpensively, challenging popular misconceptions about biodiesel while citing its benefits, in a guide that addresses such topics as safety, making custom batches, and avoiding common pitfalls. Original.

Making Algae Photobioreactors at Home - David Sieg
2009-10

Biodiesel America - Joshua Tickell 2006

Energy compromise, and the true potential for a fossil-fuel-free future. Book jacket.

Grow Algae for Profit - Christopher Kinkaid 2014-07-13

Algae is a miracle of Nature. Rich, in Amino acids, Proteins, Lipids, Carbohydrates, Anti-oxidants, phycobiliproteins, and other valuable products, algae is being tapped as the new feedstock across industries. This Book describes how to build your own

Photobioreactor to grow pure algae species (taxa). Algae, are Earths "engine" to fuel the food web. As a "primary producer," responsible for nearly half the oxygen production on Earth, the power of algae is being commercialized to produce valuable organic products. Build your own, Algae Photobioreactor (PBR) grow kit, to Cultivate valuable algal strains, and tap into the rapidly growing Algae Industry. Grow algae reliability, and repeatably, with Photobioreactor (PBR) Algae Grow Kits for controlled photosynthesis. Grow up to Four different Algal taxa using these 4-vessel Algae grow kits rated at 80 Liter total capacity. Complete with optical, mechanical, electrical, pneumatic, and biological systems, photobioreactors give you complete control. Growing monocultures of algae, using photobioreactors, is useful for researchers, developers, companies, universities, and those who need to cultivate Algal monocultures with purity, and minimal cost of construction. Algae, produce valuable amino-acids, proteins, carbohydrates, and essential oils (lipids) consuming water-borne pollution for nutrients. Algae species, grown with your PBR algae grow kits, enable researchers to tap algae's enormous productivity, able to double in mass in 24 hours under exponential growth phase. Algal researchers, work to develop protocols for increased production. Growing algae converts water, inorganic compounds (CO₂), and solar radiation into valuable organic molecules. This eBook is written as a resource for building your own photobioreactor, and growing valuable algal strains. This Book is written, as a resource for researchers, to construct an effective bioreactor, rated at 80 Liters, for growing algae monocultures. Isolated from contamination, these photobioreactors, offer the researcher total control of all inputs, and thermodynamic conditions, to grow a specific monoculture algal strain. Grow Algae for Profit, using photobioreactors, to produce useful quantities of pure species (taxa). Grow Algal Biomass, for your experiments, or for sale, with this easy-to-build Photobioreactor.

Biomass as a Sustainable Energy Source for the Future - Wiebren de Jong 2014-11-03

Focusing on the conversion of biomass into gas or liquid fuels the book covers physical pre-treatment technologies, thermal, chemical and biochemical conversion technologies • Details the latest biomass characterization techniques • Explains the biochemical and thermochemical conversion processes • Discusses the development of integrated biorefineries, which are similar to petroleum refineries in concept, covering such topics as reactor configurations and downstream processing • Describes how to mitigate the environmental risks when using biomass as fuel • Includes many problems, small projects, sample calculations and industrial application examples

The Ultimate Prepper's Guide - Jay Cassell 2014-06-03

The Ultimate Preppers' Guide is packed with practical approaches, step-by-step instructions, and how-to explanations for disaster and emergency preparation. Knowledge maps, flow charts, and templates provide important information at a glance and walk you through your decisions on personalizing and customizing disaster preparation for you, the family, and your business. The Ultimate Preppers' Guide is logically organized, easy to reference, and simple to understand. It provides diverse coverage of disaster prep topics, including a comprehensive look at disaster first aid and medical problems where there are no responders or hospitals immediately available. This book brings you up to date on emerging prep trends and technologies and examines what works and what doesn't. It explains how to prep with the budget you have and with many of the materials you already have at hand. It includes chapters on basic preparedness, communications, resource conservation, power and energy, emergency heating and cooling, water, food and nutrition, shelter, evacuation, public health, special needs, and specific hazards. This book will not just get you ready beforehand. When a disaster has happened, it will provide ideas for surviving, coping, and recovering.

Conscious Money - Patricia Aburdene 2012-09-25

The best-selling author of Reinventing the Corporation demonstrates how to grow wealth by integrating holistic values with sound money choices, outlining strategies for overcoming today's radical economic challenges in empowering ways that protect communities, customers and the environment. Original.

Energy Ethanol - Brent Yacobucci 2010

This edition examines and discusses the use of biofuels, biodiesel, ethanol, and agriculture-based renewal energy production.

The Complete Idiot's Guide to Hybrid and Alternative Fuel Vehicles - Jack R. Nerad 2007

Using clear, jargon-free language, a look at the new hybrid and alternative fuel vehicles available describes each type of car, as well as their advantages and disadvantages, specifications, and more. Original.

The Ultimate Guide to Homesteading - Nicole Faires
2011-03-10

"A compendium of skills for self-sufficiency and

survival . . . Answers to just about every practical question you might have about homesteading" (Sierra Club's The Green Life). Can you make your own bread (without a bread machine)? Grow a garden all winter? What can you use instead of toilet paper? What if the power went out for a month? What if the grocery store closed? Can you make a solar oven? Store food without electricity? Raise a water buffalo? Make fine linen from stinging nettle? Make your own shampoo? Deliver a baby? Is it possible to be totally self-sufficient? This massive, full-color book answers these questions and thousands more and includes checklists, diagrams, and instructions on how to buy a sheep. All of the information included meets these criteria: It is something that anyone can do, without special training. It can be done with relatively few supplies or with stuff you can make yourself. It has been tried and tested—either by the author, the military, doctors, or other homesteaders. The Ultimate Guide to Homesteading is a practical guide with nitty-gritty details on everything a homesteader can do, step-by-step with hundreds of color illustrations and pen and ink sketches. You can do it! This book can help.

The Chinese Medicinal Herb Farm - Peg Schafer 2011
Providing detailed profiles, growing information and medicinal uses for dozens of herbs, a guide for cultivating high-quality herbs at home draws on new scientific data while sharing complementary recipes and coverage of such topics as conservation, crop integration and how to avoid invasive species. Original.

The Homemade Atheist - Betty Brogaard 2010-10
Betty Brogaard was raised to be a good Christian. By the time she was 20 years old, she had joined a fundamentalist church. She even met and married a young man who became a minister in the congregation. However, the more she came to understand Christianity from within, the more she found herself asking questions instead of finding answers. In *The Homemade Atheists*, Betty shares her sincere, personal and fascinating journey from the mental slavery of religion to the happiness she found in freethought. Along the way and without malice, she offers questions that challenge you to analyze your own beliefs—exactly as she did over a period of many years. Her transformation provides a wealth of insight s for anyone seeking a path to a nonreligious way of life.

The Complete Idiot's Guide to Renewable Energy for Your Home - Brita Belli 2009-07-07

An essential how-to on powering your home with sun, wind, water, and more. For readers wanting to save money—and the planet—by using alternative energy, this book provides everything they need to know. The five basic sources are fully covered: sun, wind, water, earth, and bio. The benefits, what is needed, and whether it will work for a particular home are all carefully laid out in this comprehensive overview: ? Solar energy for home heating, water heating, and electricity ? Wind power, hydrogen, and micro hydro power ? Heat pumps—air, geothermal, and water source ? Heating with wood and going bio

Godless - Dan Barker 2008-09

A former preacher tell why he abandoned the guidance of the Bible to follow the dictates of own conscience.

Metal boat maintenance—A do it yourself guide - Scott Fratcher 2009

A do-it-yourself guide to metal boat repair and maintenance. Topic covered include metal boat corrosion, metal preparation, interior rust, painting, extending the life of a steel boat, ultra-sonic metal thickness gauge use, changing hull plate and alternative methods of repairing metal boats. . . ."—Back cover.

Efficiency of Biomass Energy - Krzysztof J. Ptasinski 2016-06-07

Details energy and exergy efficiencies of all major aspects of bioenergy systems Covers all major bioenergy

processes starting from photosynthesis and cultivation of biomass feedstocks and ending with final bioenergy products, like power, biofuels, and chemicals Each chapter includes historical developments, chemistry, major technologies, applications as well as energy, environmental and economic aspects in order to serve as an introduction to biomass and bioenergy A separate chapter introduces a beginner in easy accessible way to exergy analysis and the similarities and differences between energy and exergy efficiencies are underlined Includes case studies and illustrative examples of 1st, 2nd, and 3rd generation biofuels production, power and heat generation (thermal plants, fuel cells, boilers), and biorefineries Traditional fossil fuels-based technologies are also described in order to compare with the corresponding bioenergy systems

Run Your Diesel Vehicle on Biofuels: A Do-It-Yourself Manual - Jon Starbuck 2008-12-01

CONVERT TO BIODIESEL FOR A MORE ENVIRONMENTALLY FRIENDLY RIDE Run Your Diesel Vehicle on Biofuels has everything you need to make the switch from expensive, environment-damaging carbon fuel to cheap (and, in many cases, free), clean fuel for your vehicle. Practical and decidedly apolitical, this unique guide focuses on technical details, parts, and instructions. Inside, you'll find step-by-step instructions accompanied by helpful illustrations for such projects as building and properly using a homemade biodiesel reactor, which enables you to drive you car on vegetable oil purchased at a fraction of the price of gas or even on second-hand oil obtained from restaurants free of charge. Run Your Diesel Vehicle on Biofuels also includes a list of international parts suppliers and various manufacturers' warranty statuses regarding vehicles converted to biodiesel. Projects include: Collecting waste oil Building a waste-oil processor Creating biodiesel fuel Converting your car to professional standards Constructing heat exchangers Run Your Diesel Vehicle on Biofuels covers: • History and functions of the diesel engine • Benefits of biofuel • Where to obtain raw ingredients • Theory of fuel conversion • Existing conversion kits o Blends, emulsions, and thinners • Processing and discarding waste oil • Laws and regulations • Green retail o Health and safety • Limitations of environmental benefits

Field Guide to the Apocalypse - Meg Marco 2009-12-01
the end is near Surviving the apocalypse is one thing. Enjoying life after most of civilization is wiped out -- that's entirely different. Maybe you can outrun an avalanche, or escape a burning building, but can you really cut it after the unthinkable happens? Can you, for example, deal with damn dirty apes, convert your car to run on bathtub gin, or synthesize a species-saving vaccine from your own mucus? No? Obviously, it's not going to be as easy as you thought to come out of Armageddon as the new ruling king of the world. Any chump off the street could be lucky enough to have the immunity to survive the all-of-humanity-killing disease, or be the one dude who happens to make it through a meteor strike. But not everyone will know what clothes to wear to intimidate, or what kind of vehicle you want to be driving in the postapocalyptic wasteland. Not everyone will have the sense to discern whether their food is, in fact, people. You can survive the apocalypse without this book. But the apocalypse isn't the problem: It's what happens afterward. You against the other people left in the world. You'd better be prepared.

Biodiesel - Greg Pahl 2005

In this book, Greg Pahl shares the history of biodiesel, explains the technology in straightforward terms, and explores its exciting potential in the United States and beyond, including resources you can use to buy or make your own biodiesel.

Biodiesel Production101 Homebrew Edition - Alexandre Tesla 2018-10-24

Learn to create your own batches of biodiesel at home. A great resource material for do it yourself enthusiasts that want to save money and become more independent of big oil companies. Designed for all levels of knowledge. From the casual readers with no prior knowledge to the technical expert; a great guide to immerse you into the world of biodiesel. In this book you are going to: - Learn the basics of chemistry related to the production of biodiesel. - Know where and how to use used cooking oil to produce your biodiesel-Learn the safest techniques to brew-What is the material need to set a small scale brewing-Set up the system for a continuous production-Safety cautions and regulatory issues regarding brewing and storage-Make quality biodiesel so it can run on any diesel machineTake advantage of America's fastest growing alternative fuel today!
Process Systems Engineering for Biofuels Development - Gade Pandu Rangaiah 2020-08-06

A comprehensive overview of current developments and applications in biofuels production *Process Systems Engineering for Biofuels Development* brings together the latest and most cutting-edge research on the production of biofuels. As the first book specifically devoted to process systems engineering for the production of biofuels, *Process Systems Engineering for Biofuels Development* covers theoretical, computational and experimental issues in biofuels process engineering. Written for researchers and postgraduate students working on biomass conversion and sustainable process design, as well as industrial practitioners and engineers involved in process design, modeling and optimization, this book is an indispensable guide to the newest developments in areas including: Enzyme-catalyzed biodiesel production Process analysis of biodiesel production (including kinetic modeling, simulation and optimization) The use of ultrasonification in biodiesel production Thermochemical processes for biomass transformation to biofuels Production of alternative biofuels In addition to the comprehensive overview of the subject of biofuels found in the Introduction of the book, the authors of various chapters have provided extensive discussions of the production and separation of biofuels via novel applications and techniques.
Homesteading in the 21st Century - George Nash 2011

A pair of accomplished homesteaders explain how to create a more self-sufficient home in either a rural or urban setting--from keeping chickens to growing a garden to brewing beer--in a book with 180 full-color photos and 50 drawings. Original.

Alternative Energies - Germán Ferreira 2013-12-13
This book presents nine chapters based on fundamental and applied research of alternative energies. At the present time, the challenge is that technology has to come up with solutions that can provide environmentally friendly energy supply options that are able to cover the current world energy demand. Experts around the world are working on these issues for providing new solutions that will break the existing technological barriers. This book aims to address key pillars in the alternative energy field, such as: biomass energy, hydrogen energy, solar energy, wind energy, hydroelectric power, geothermal energy and their environmental implications, with the most updated progress for each pillar. It also includes the life cycle assessment (LCA) and thermoeconomic analysis (TA) as tools for evaluating and optimising environmental and cost subjects. Chapters are organized into fundamental research, applied research and future trends; and written for engineers, academic researches and scientists.

50 Green Projects for the Evil Genius - Jamil Shariff 2009-01-08

50 Ways to Be a Green Evil Genius! Who knew being environmentally conscious would ever be considered evil? With 50 Green Projects for the Evil Genius, you'll have

wicked fun while reducing your impact on the planet and saving money. Using easy-to-find parts and tools, this do-it-yourself guide offers a wide variety of environmentally focused projects you can accomplish on your own. Topics covered include transportation, alternative fuels, solar, wind, and hydro power, home insulation, construction, and more. The projects in this unique guide range from easy to more complex and are designed to optimize your time and simplify your life!
50 Green Projects for the Evil Genius: Features step-by-step instructions for 50 environmentally friendly projects, complete with helpful illustrations Shows you how to design, build, and install your creations Allows you to customize each project for your purposes Removes the frustration factor-all required parts are listed, along with sources
50 Green Projects for the Evil Genius provides you with all the plans and schematics you need to: Dramatically improve the fuel efficiency of your car Insulate the windows in your home Build a worm compost bin Audit your appliances with an energy meter Build a water purifier Set up a rainwater collection system Create a solar water heater Construct a homopolar motor Assemble a solar module from PV cells Create a wind turbine Assemble your own weather-protected human-powered vehicle Convert your car to biodiesel Build a contained composite structure And more
Production of Biodiesels from Multiple Feedstocks and Properties of Biodiesels and Biodiesel/diesel Blends - John A. Kinast 2003

Making Algae Biodiesel at Home - David Sieg 2011
The global bestseller has now come to Amazon.com! The New 2012 edition is here! The global bestseller is now in paperback. Over 350 pages, and over 80 pages of new material. Including... * Locating algal strains in your environment, * Where to buy algae strains world-wide. * Building a low-cost algae lab, * Building an algal "bio-pond", * Building a "Backyard Open Pond" * Building a low cost photo bio-reactor. *Commercial production concepts. And much, much more It's all here and more if you want to understand the concepts and how to get in on the cutting edge of 21st. century fuel making.

The Complete Idiot's Guide to Solar Power for Your Home - Dan Ramsey 2007

Explains the fundamentals of solar power and other renewable energy sources, including estimating energy needs, selecting the right equipment, and maintaining the system once it is installed.

The Complete Master Cleanse - Tom Woloshyn 2007-07-28
A comprehensive guide to cleansing and detoxing the body--and maximizing the amazing results of the Master Cleanse Diet. The Lemonade Diet is simple and powerful. The recipe takes only minutes to learn, and when done correctly the cleanse is surprisingly easy and completely safe. But there's more to it than just drinking the lemonade mixture. The Complete Master Cleanse offers a step-by-step program that unleashes the full power of the Master Cleanse and all its health benefits. Tom Woloshyn shares the amazing results, helpful information, and insightful tips he's gained from personally coaching thousands of people on the best way to follow The Lemonade Diet. Much has been learned about detoxing since the Master Cleanse was first developed over thirty years ago, and this up-to-date book explains clearly how and why cleansing can improve all aspects of your personal health, including:
•Increasing Energy •Balancing Your Body's pH •Losing Weight •Reducing Swelling and Pain •Alleviating Allergies •Flushing the Colon •Improving Skin and Hair •Ridding Your Body of Parasites

How to Be a Farmer (UK Only) - John Terry 2021-09-01
The ultimate beginner's guide, *How to Be a Farmer* is perfect for anyone interested in learning more before they commit to a farming lifestyle. Whether you're interested in farming as a hobby or as a full-time

business, this complete resource outlines everything you need to know – from obtaining land and insurance to farming regulations, keeping livestock, arable farming, haymaking, and so much more. Offering friendly and practical advice, *How to Be a Farmer* is the perfect starting point for anyone looking for information on this rewarding lifestyle!

Biofuels, Land Grabbing and Food Security in Africa - Prosper B. Matondi 2011-06-09

The issue of biofuels has already been much debated, but the focus to date has largely been on Latin America and deforestation - this highly original work breaks fresh ground in looking at the African perspective. Most African governments see biofuels as having the potential to increase agricultural productivity and export incomes and thus strengthen their national economies, improving energy balances and rural employment. At the same time climate change may be addressed through reduction of green house gas emissions. There are, however, a number of uncertainties mounting that challenge this scenario. Using cutting-edge empirical case studies, this knowledge gap is addressed in a variety of chapters examining the effects of large-scale biofuel production on African agriculture. In particular, 'land grabbing' and food security issues are scrutinised, both of which have become vital topics in regard to the environmental and developmental governance of African countries. A revealing book for anyone wishing to understand the startling impact of biofuels and land grabbing on Africa.

Biodiesel Handling and Use Guidelines (3rd Ed.) - K. S. Tyson 2009-05

A guide for those who blend, distribute, and use biodiesel and biodiesel blends. Will help fleets and individual users, blenders, distributors, and those involved in related activities understand procedures for handling and using biodiesel fuels. Biodiesel is a renewable fuel manufactured from vegetable oils, animal fats, and recycled cooking oils. It offers many advantages: It is renewable; It is energy efficient; It displaces petroleum derived diesel fuel; It can be used in most diesel equipment with no or only minor modifications; It can reduce global warming gas emissions; It can reduce tailpipe emissions; It is nontoxic, biodegradable, and suitable for sensitive environ; It is made in the U.S. from either ag. or recycled resources; and it is easy to use.

Alcohol Fuel - Richard Freudenberger 2009-10-01

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

Handbook of Biofuels Production - Rafael Luque 2016-05-19

Handbook of Biofuels Production, Second Edition, discusses advanced chemical, biochemical, and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage. Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The book provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Key changes for this second edition include increased coverage of emerging feedstocks, including microalgae, more emphasis on by-product valorization for biofuels' production, additional chapters on emerging biofuel production methods, and discussion of the emissions associated with biofuel use in engines. The editorial team is strengthened by the addition of two extra members, and a number of new contributors have been invited to work with authors from the first edition to revise existing chapters, thus offering fresh perspectives. Provides systematic and detailed coverage of the processes and technologies being used for biofuel production Discusses advanced chemical, biochemical, and

thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage Reviews the production of both first and second generation biofuels Addresses integrated biofuel production in biorefineries and the use of waste materials as feedstocks

The Homeowner's Energy Handbook - Paul Scheckel 2013-01-01

Discusses renewable energy resources and provides instructions for creating energy-saving and energy-producing equipment.

Biodiesel - William H. Kemp 2006

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

Build Your Own Small Wind Power System - Kevin Shea 2011-12-06

A STEP-BY-STEP GUIDE TO BUILDING A SMALL WIND POWER SYSTEM FROM THE GROUND UP Written by renewable energy experts, this hands-on resource provides the technical information and easy-to-follow instructions you need to harness the wind and generate clean, safe, and reliable energy for on-site use. Build Your Own Small Wind Power System shows you how to install a grid-connected or off-grid residential-scale setup. Get tips for evaluating your site for wind power potential, obtaining permits, financing your project, selecting components, and assembling and maintaining your system. Pictures, diagrams, charts, and graphs illustrate each step along the way. You'll also find out how you can help promote wind-friendly public policies locally. Save money and reduce your carbon footprint with help from this practical guide. **COVERAGE INCLUDES:** Challenges and impacts of small wind energy Electricity, energy, and wind science Determining if wind power is right for you Site assessment Financing small wind power Permits and zoning Wind turbine fundamentals Choosing the right wind turbine for the job Balance of system: batteries, inverters, and controllers Installation, maintenance, and troubleshooting Future developments in wind power **From the Fryer to the Fuel Tank** - Joshua Tickell 2003 Discusses the American dependence on imported fossil fuel and proposes a solution in the form of biodiesel engines.

Drawdown - Paul Hawken 2017-04-18

• New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world "At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope." –Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* "There's been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom." –David Roberts, *Vox* "This is the ideal environmental sciences textbook–only it is too

interesting and inspiring to be called a textbook.”
—Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

Power from the People - Greg Pahl 2012-08-13

Over 90 percent of US power generation comes from large, centralized, highly polluting, nonrenewable sources of energy. It is delivered through long, brittle transmission lines, and then is squandered through inefficiency and waste. But it doesn't have to be that way. Communities can indeed produce their own local, renewable energy. *Power from the People* explores how homeowners, co-ops, nonprofit institutions, governments, and businesses are putting power in the hands of local communities through distributed energy programs and

energy-efficiency measures. Using examples from around the nation - and occasionally from around the world - Greg Pahl explains how to plan, organize, finance, and launch community-scale energy projects that harvest energy from sun, wind, water, and earth. He also explains why community power is a necessary step on the path to energy security and community resilience - particularly as we face peak oil, cope with climate change, and address the need to transition to a more sustainable future. This book - the second in the Chelsea Green Publishing Company and Post Carbon Institute's Community Resilience Series - also profiles numerous communitywide initiatives that can be replicated elsewhere.

Backyard Biodiesel - Lyle Estill 2015-04-01

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 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.