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Sustainable Energy--without the Hot Air -

David J. C. MacKay 2009

Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been

skewed by various factors and discussing alternate forms of energy that can and should be used.

Creating the Twentieth Century -

Distinguished Professor Department of Environment Vaclav Smil 2005-08-25

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The two pre-World War I generations encompassed the greatest innovative period in history. Technical inventions of 1867-1914 & their rapid improvement & commercialisation created new prime movers, materials, infrastructures & information means that provided the lasting foundations of the modern world.

Crimes Committed by Terrorist Groups -

Mark S. Hamm 2011-01

This is a print on demand edition of a hard to find publication. Examines terrorists' involvement in a variety of crimes ranging from motor vehicle violations, immigration fraud, and mfg. illegal firearms to counterfeiting, armed bank robbery, and smuggling weapons of mass destruction. There are 3 parts: (1) Compares the criminality of internat. jihad groups with domestic right-wing groups. (2) Six case studies of crimes includes trial transcripts, official reports, previous scholarship, and interviews with law enforce. officials and former terrorists

are used to explore skills that made crimes possible; or events and lack of skill that the prevented crimes. Includes brief bio. of the terrorists along with descriptions of their org., strategies, and plots. (3) Analysis of the themes in closing arguments of the transcripts in Part 2. Illus.

Design Principles of Ships and Marine

Structures - Suresh Chandra Misra 2015-12-01

The Definitive Reference for Designers and Design Students A solid grasp of the fundamentals of materials, along with a thorough understanding of load and design techniques, provides the components needed to complete a marine platform design. Design Principles of Ships and Marine Structures details every facet of ship design and design integration, and highlights the design aspects that must be put together to create an integrated whole product. This book discusses naval architecture and marine engineering applications and principles relevant to the

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design of various systems, examines advanced numerical techniques that can be applied to maritime design procedure at the concept design stage, and offers a comprehensive approach to the subject of ship design. Covers the Entire Sphere of Marine Design The book begins with an introduction to marine design and the marine environment, describing many of the marine products that are used for transportation, defense and the exploitation of marine resources. It also discusses stability issues relevant to ship design, as well as hydrodynamic aspects of resistance, propulsion, sea keeping and maneuvering, and their effects on design. In addition to covering the various systems and sub-systems that go into making a complex product to be used in maritime environment, the author explains engineering economics and its application in ship design, and provides examples wherever necessary. Written by an author with more than 35 years of teaching experience, this book: Describes

various design methodologies such as sequential design process with the application of concurrent engineering and set based design factors in the use of computer-aided design techniques Highlights the shape design methodology of ship forms and layout design principles Considers design aspects relative to safety and risk assessment Introduces the design for production aspects in marine product development Discusses design principles for sustainability Explains the principles of numerical optimization for decision-making Design Principles of Ships and Marine Structures focuses on ship design efficiency, safety, sustainability, production, and management, and appeals to students and design professionals in the field of shipping, shipbuilding and offshore engineering.

Modern Marine Engineer's Manual - Alan Osbourne 1965

Volume II of the manual that has been absolutely indispensable to the ship's engineer for over

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forty years was completely updated by a team of practicing marine engineers in 1991. Chapters on obsolete equipment were deleted; those on systems that are still current were updated; and new chapters were written to cover the innovations in materials, machines, and operating practices that evolved recently.

Technics and Civilization - Lewis Mumford
2010-10-30

Technics and Civilization first presented its compelling history of the machine and critical study of its effects on civilization in 1934—before television, the personal computer, and the Internet even appeared on our periphery. Drawing upon art, science, philosophy, and the history of culture, Lewis Mumford explained the origin of the machine age and traced its social results, asserting that the development of modern technology had its roots in the Middle Ages rather than the Industrial Revolution. Mumford sagely argued that it was the moral, economic, and political

choices we made, not the machines that we used, that determined our then industrially driven economy. Equal parts powerful history and polemic criticism, Technics and Civilization was the first comprehensive attempt in English to portray the development of the machine age over the last thousand years—and to predict the pull the technological still holds over us today. “The questions posed in the first paragraph of Technics and Civilization still deserve our attention, nearly three quarters of a century after they were written.”—Journal of Technology and Culture

Stirling Engine Design Manual - William Martini
2013-01-25

For Stirling engines to enjoy widespread application and acceptance, not only must the fundamental operation of such engines be widely understood, but the requisite analytic tools for the stimulation, design, evaluation and optimization of Stirling engine hardware must be readily available. The purpose of this design

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manual is to provide an introduction to Stirling cycle heat engines, to organize and identify the available Stirling engine literature, and to identify, organize, evaluate and, in so far as possible, compare non-proprietary Stirling engine design methodologies. This report was originally prepared for the National Aeronautics and Space Administration and the U. S. Department of Energy.

This Old Boat, Second Edition : Completely Revised and Expanded - Don Casey 2009-03-25
Turn a run-down fiberglass boat into a first-class yacht Since it first appeared in 1991, Don Casey's This Old Boat has helped tens of thousands of sailors refurbish older fiberglass boats and has become a revered classic among boat rehabbers. This second edition is revised from first page to last with new information on electrical systems, diesel engines, refrigeration, resins, plumbing and more. Plus, more than 600 newly created illustrations enhance the book's beauty as well as its utility.

Tom King and Jonathan Wild. Or, The Days of Young Jack Sheppard - Cengage Gale 1870

Electric and Hybrid Cars - Curtis D. Anderson
2010-03-30

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.

Our Energy Future - Christian Ngo 2016-03-14
Presents an overview on the different aspects of the energy value chain and discusses the issues that future energy is facing This book covers

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energy and the energy policy choices which face society. The book presents easy-to-grasp information and analysis, and includes statistical data for energy production, consumption and simple formulas. Among the aspects considered are: science, technology, economics and the impact on health and the environment. In this new edition two new chapters have been added: The first new chapter deals with unconventional fossil fuels, a resource which has become very important from the economical point of view, especially in the United States. The second new chapter presents the applications of nanotechnology in the energy domain. Provides a global vision of available and potential energy sources Discusses advantages and drawbacks to help prepare current and future generations to use energy differently Includes new chapters covering unconventional fossil fuels and nanotechnology as new energy Our Energy Future: Resources, Alternatives and the Environment, Second Edition, is written for

professionals, students, teachers, decision-makers and politicians involved in the energy domain and interested in environmental issues. Washington, Shakespeare and St. George - Sarah M. Colbert 1893

The Complete Trailer Sailor: How to Buy, Equip, and Handle Small Cruising Sailboats

- Brian Gilbert 2007-06-22

A soup-to-nuts introduction to small, economical sailing craft Trailer sailers--the smallest, most economical sailboats with sleeping accommodations--are a popular platform for learning the basics of sailing and are often considered to be the entry level to cruising under sail. Author Brian Gilbert shows how trailer sailers can be the ideal craft for a lifetime of enjoyment, including serious, long-distance cruising. This book covers all the bases, including how to inspect, buy, and equip a boat; how to trailer, sail, navigate, and cruise in small boats; how to use communications and

navigation equipment; and more.

Handbook of Diesel Engines - Klaus Mollenhauer
2010-06-22

This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t- engine engineering and replace everything that exists. stroke diesel engines. An appendix lists the most (From Rudolf Diesel's letter of October 2, 1892 to the important standards and regulations for diesel engines. publisher Julius Springer.) Further development of diesel engines as economiz- Although Diesel's stated goal has never been fully ing, clean, powerful and convenient drives for road and achievable of course, the diesel engine indeed revolu- nonroad use has proceeded quite dynamically in the tionized drive systems. This handbook documents the last twenty years in particular. In light of limited oil current state of diesel engine engineering and technol- reserves and the discussion of predicted climate ogy. The impetus to publish a Handbook

of Diesel change, development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel's on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago. Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance.

How to Rebuild Small-Block Ford Engines - Tom Monroe 1987-01-01

If you have a small-block Ford, then you need this book! This detailed guide covers the step-by-step rebuilding process of the popular small-block Ford engine. Parts inspection, diagnosis, reconditioning, and assembly are outlined in simple text. Hundreds of photos, charts, and diagrams visually walk you through the entire rebuild. You'll be able to completely disassemble your engine, recondition the block and cylinder

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heads, then reassemble and install the engine in your vehicle. There's even a section on how to perform tune-ups to maximize performance and economy. Sections on parts interchanging will help you identify all parts and determine which ones can and can't be swapped. This is truly a "hands-on" book. Don't put off your project any longer. Start rebuilding your small-block Ford today!

Retail Industry - Internal Revenue Service 2013

Battery Reference Book - Thomas P J

Crompton 2000-03-20

Crompton's Battery Reference Book has become the standard reference source for a wide range of professionals and students involved in designing, manufacturing, and specifying products and systems that use batteries. This book is unique in providing extensive data on specific battery types, manufacturers and suppliers, as well as covering the theory - an aspect of the book which makes an updated

edition important for every professional's library. The coverage of different types of battery is fully comprehensive, ranging from minute button cells to large installations weighing several hundred tonnes. Must-have information and data on all classes of battery in an accessible form Essential reference for design engineers in automotive and aerospace applications, telecommunications equipment, household appliances, etc. Informs you of developments over the past five years

Inside the Cold War - Chris Adams 2004-12-01
General Adams reflects on his experiences in the cold war, during which he served in both manned bombers and missile silos. He tells stories of famous and not-so-famous cold warriors, including some from the US Navy. Some stories are humorous; some stories are tragic. Having traveled extensively in Russia and some former Soviet Union states after retirement, General Adams tells us about his former adversaries, the Soviet cold warriors. In

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the process, he leaves no doubt about his respect for all who served so valiantly in the "strategic triad"-- the strategic command, the ICBM force, and the submarine Navy.

Business Law and the Legal Environment, Standard Edition - Jeffrey F. Beatty 2012-01-02
BUSINESS LAW AND THE LEGAL

ENVIRONMENT, 6E uses vivid examples and memorable scenarios to lead students through the full breadth of business law. Focusing on hands-on application and using a conversational writing style, this handy textbook equips students for business challenges from the first page. Plus, by showing students through practice how legal concepts apply to their future careers, BUSINESS LAW AND THE LEGAL ENVIRONMENT, 6E draws students into the material, helping them study more effectively and diligently. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Transport, Energy and CO2 - International Energy Agency 2009

Car ownership is set to triple by 2050, trucking activity will double and air travel could increase fourfold. This book examines how to enable mobility without accelerating climate change. it finds that if changes are made to the way people travel, adoption of technologies to improve vehicle efficiency and a shift to low-CO2 fuels, it is possible to move onto a different pathway where transport CO2 emissions by 2050 are far below current levels, at costs that are lower than many assume. the report discusses the prospects for shifting more travel to the most efficient modes and reducing travel growth rates, improving vehicle fuel efficiency by up to 50% using cost-effective, incremental technologies, and moving toward electricity, hydrogen, and advanced biofuels to achieve a more secure and sustainable transport future. If governments implement strong policies to achieve this scenario, transport can play its role and

dramatically reduce CO2 emissions by 2050.

[Marine Diesel Engines](#) - Nigel Calder 2003

Nigel Calder, a diesel mechanic for more than 25 years, is also a boatbuilder, cabinetmaker, and machinist. He and his wife built their own cruising sailboat, Nada, a project they completed in 1984. Calder is author of numerous articles for Yachting Monthly and many other magazines worldwide, as well as the bestselling Boatowner's Practical and Technical Cruising Manual and Boatowner's Mechanical and Electrical Manual, both published by Adlard Coles Nautical. Here, in this goldmine of a book, is everything the reader needs to keep their diesel engine running cleanly and efficiently. It explains how diesel engines work, defines new terms, and lifts the veil of mystery that surrounds such engines. Clear and logical, this extensively illustrated guide will enable the reader to be their own diesel mechanic. As Nigel Calder says: 'there is no reason for a boatowner not to have a troublefree relationship with a

diesel engine. All one needs is to set the engine up correctly in the first place, to pay attention to routine maintenance, to have the knowledge to spot early warning signs of impending trouble, and to have the ability to correct small ones before they become large ones.'

[Car PC Hacks](#) - Damien Stolarz 2005

Car PC Hacks is the first book available to introduce and entrench you into the hot new car PC market. Expect innovation, tools and fun experiments for creating a mobile multimedia center. This Hacks Series addition packs a punch in this comprehensive and easy-to-read guide. Whether you're venturing into car PC for the first time or an experienced hobbyist, hop in for a joy ride.

Media and the American Mind - Daniel J. Czitrom 2010-02-03

In a fascinating and comprehensive intellectual history of modern communication in America, Daniel Czitrom examines the continuing contradictions between the progressive

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possibilities that new communications technologies offer and their use as instruments of domination and exploitation.

Power Plant Engineering - A. K. Raja 2006

This Text-Cum-Reference Book Has Been Written To Meet The Manifold Requirement And Achievement Of The Students And Researchers. The Objective Of This Book Is To Discuss, Analyses And Design The Various Power Plant Systems Serving The Society At Present And Will Serve In Coming Decades India In Particular And The World In General. The Issues Related To Energy With Stress And Environment Up To Some Extent And Finally Find Ways To Implement The Outcome. Salient Features# Utilization Of Non-Conventional Energy Resources# Includes Green House Effect# Gives Latest Information S In Power Plant Engineering# Include Large Number Of Problems Of Both Indian And Foreign Universities# Rich Contents, Lucid Manner

Merriam-Webster's Vocabulary Builder - Mary

W. Cornog 1998

The ideal book for people who want to increase their word power. Thorough coverage of 1,200 words and 240 roots while introducing 2,300 words. The Vocabulary Builder is organized by Greek and Latin roots for effective study with nearly 250 new words and roots. Includes quizzes after each root discussion to test progress. A great study aid for students preparing to take standardized tests.

Gregg Shorthand - John Robert Gregg 1905

Providing the Means of War - Shannon A. Brown 2005

Low-Speed Wind Tunnel Testing - Jewel B. Barlow 1999-02-22

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining

the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples

throughout, *Low-Speed Wind Tunnel Testing, Third Edition* is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

[ASVAB For Dummies](#) - Jennifer Lawler
2003-01-31

If you want to get into the military, you have to take the Armed Services Vocational Battery (ASVAB). Anyone eligible for military service can take the ASVAB, so you can also use the ASVAB for other purposes, such as finding out what you're good at, in case you want to attend vocational school or college. In addition, you can also use the test to help you better understand your skills, for when you enter the job market. And the best thing is, it's absolutely free. And while the ASVAB may not be rocket science, it can be very tricky and you don't want to tackle it

without some help. With this book as your guide, you'll quickly gain the knowledge and confidence you need to pass the ASVAB with flying colors. Written by a professional test-prep coach and a retired military man, it arms you with: A comprehensive review of all test subjects Practice problems to sharpen your skills Three complete sample tests Guidance on which tests are important to your military career Study techniques that will give you a competitive edge Tips on how to compute your scores Information on the scores required for specific military jobs ASVAB For Dummies provides in-depth coverage of all ten ASVAB subsets. You get clear easy-to-understand reviews of all the basic concepts, formulas, and skills you need to answer every type of question in every subset. And you get dozens of mini-tests and practice problems that help you understand what areas you're strong in and which ones still need work. In not time, you'll: Pump up your vocabulary and reading comprehension skills and ace the verbal

subsets Bone up on arithmetic procedures and mathematics concepts—and wrack up the points Get into gear with basic mechanical, auto shop, and electronics knowledge and cruise through the tests Quickly review basic science principles and score like a rocket scientists! ASVAB For Dummies is your complete tactical guide to improving your scores—on the double.

[Singlehanded Sailing](#) - Andrew Evans

2014-09-05

"It takes thousands of hours of sailing to get the kind of knowledge contained in this book." -- from the Foreword by Bruce Schwab The ONLY bible for how to sail your boat fast, safe, and alone Solo sailing is within any sailor's grasp with a little forethought--and this essential guide. Got a 35-foot sailboat? No problem. Is the wind blowing 20 knots? No problem. Are you racing offshore overnight? Even better. Singlehander Andrew Evans learned the hard way how to sail and race alone--with lots of mishaps, including broaches and a near

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tumbling over a waterfall--and in Singlehanded Sailing he shares the techniques, tips, and tactics he has developed to make his solo sailing adventures safe and enriching. Learn everything you need to know to meet any solo challenge, including: Managing the power consumption aboard a boat to feed the electric autopilot Setting and gybing a spinnaker Finding time to sleep Dealing with heavy weather

Pearl Harbor - Homer N. Wallin 2001-09-01
Pearl Harbor will long stand out in mens minds as an example of the results of basic unpreparedness of a peace loving nation, of highly efficient treacherous surprise attack and of the resulting unification of America into a single tidal wave of purpose to victory. Therefore, all will be interested in this unique narrative by Admiral Wallin. The Navy has long needed a succinct account of the salvage operations at Pearl Harbor that miraculously resurrected what appeared to be a forever shattered fleet. Admiral Wallin agreed to

undertake the job. He was exactly the right man for it _ in talent, in perception, and in experience. He had served intimately with Admiral Nimitz and with Admiral Halsey in the South Pacific, has commanded three different Navy Yards, and was a highly successful Chief of the Bureau of Ships. On 7 December 1941 the then Captain Wallin was serving at Pearl Harbor. He witnessed the events of that shattering and unifying "Day of Infamy." His mind began to race at high speeds at once on the problems and means of getting the broken fleet back into service for its giant task. Unless the United States regained control of the sea, even greater disaster loomed. Without victory at sea, tyranny soon would surely rule all Asia and Europe. In a matter of time it would surely rule the Americas. Captain Wallin salvaged most of the broken Pearl Harbor fleet that went on to figure prominently in the United States Navys victory. So the account he masterfully tells covers what he masterfully accomplished. The United States

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owes him an unpayable debt for this high service among many others in his long career.

Lead-Acid Batteries for Future Automobiles

- Jürgen Garche 2017-02-21

Lead-Acid Batteries for Future Automobiles provides an overview on the innovations that were recently introduced in automotive lead-acid batteries and other aspects of current research. Innovative concepts are presented, some of which aim to make lead-acid technology a candidate for higher levels of powertrain hybridization, namely 48-volt mild or high-volt full hybrids. Lead-acid batteries continue to dominate the market as storage devices for automotive starting and power supply systems, but are facing competition from alternative storage technologies and being challenged by new application requirements, particularly related to new electric vehicle functions and powertrain electrification. Presents an overview of development trends for future automobiles and the demands that they place on the battery

Describes how to adapt LABs for use in micro and mild hybrid EVs via collector construction and materials, via carbon additives, via new cell construction (bipolar), and via LAB hybrids with Li-ion and supercap systems System integration of LABs into vehicle power-supply and hybridization concepts Short description of competitive battery technologies

Go Like Hell - Albert J. Baime 2009

Traces the story of how Henry Ford II endeavored to compete against Enzo Ferrari for dominance in the speed- and style-driven 1960s automobile industry, revealing the pivotal contributions of visionary Lee Iacocca and former racing champion-turned-engineer Carroll Shelby.

An Introduction to Engine Testing and Development - Richard Atkins 2009-04-01

This book presents the basic principles required for the testing and development of internal combustion engine powertrain systems, providing the new automotive engineer with the

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basic tools required to effectively carry out meaningful tests. With useful information for graduate students, new test technicians, and established engineers, this book explains the test process - from setting up a dynamometer test facility to testing for performance and durability. Combustion analysis and emissions, and new test trends are also covered.

Electric Vehicle Technology Explained - James Larminie 2012-09-17

Fully updated throughout, *Electric Vehicle Technology, Second Edition*, is a complete guide to the principles, design and applications of electric vehicle technology. Including all the latest advances, it presents clear and comprehensive coverage of the major aspects of electric vehicle development and offers an engineering-based evaluation of electric motor scooters, cars, buses and trains. This new edition includes: important new chapters on types of electric vehicles, including pickup and linear motors, overall efficiencies and energy

consumption, and power generation, particularly for zero carbon emissions expanded chapters updating the latest types of EV, types of batteries, battery technology and other rechargeable devices, fuel cells, hydrogen supply, controllers, EV modeling, ancillary system design, and EV and the environment brand new practical examples and case studies illustrating how electric vehicles can be used to substantially reduce carbon emissions and cut down reliance on fossil fuels futuristic concept models, electric and high-speed trains and developments in magnetic levitation and linear motors an examination of EV efficiencies, energy consumption and sustainable power generation. MATLAB® examples can be found on the companion website www.wiley.com/go/electricvehicle2e Explaining the underpinning science and technology, this book is essential for practicing electrical, automotive, power, control and instrumentation engineers working in EV research and

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development. It is also a valuable reference for academics and students in automotive, mechanical, power and electrical engineering.
Man of High Fidelity: Edwin Howard Armstrong
- Lawrence Lessing 1956

Practical Outboard Ignition Troubleshooting -
CDI Electronics, Incorporated 2009-08-05
Comprehensive troubleshooting guide for most outboard marine engines. Includes detailed diagnostic tips, DVA measurements, engine specific test data, and much more.
Alternators and Starter Motors - Robert Bosch GmbH. 2003

Practical Ship Design - D.G.M. Watson
2002-02-22
The ever-growing demand for commercial activities at sea has meant that ships are rapidly developing and that the rules governing their construction and operation are changing. Practical Ship Design records these changes,

their outcomes and the reasoning behind them. It deals with every aspect of ship design and handles a wide range of both merchant ships and naval ships with authority. It provides coverage of cargo ships and passenger ships, tugs, dredgers and other service craft. It also includes concept design, detail design, structural design, hydrodynamics design, the effect of regulations, the preparation of specifications and matters of costs and economics. Drawing on the author's extensive practical experience, Practical Ship Design is likely to interest everybody involved in the design, construction, repair and operation of ships. Students and the most experienced professionals will all benefit from the book's vast store of design data and its conclusions and recommendations.

Ecohouse - Sue Roaf 2007
As the need to slow climate change becomes increasingly urgent, growing numbers of people are looking to dramatically reduce the carbon footprint of their own buildings by using more

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ecologically sound techniques. Ecohouse provides design information about the latest low-impact materials and technologies, showcasing the newest and best 'green' solutions with international case studies demonstrating sustainable design in action around the world. This edition has been expanded to include advice

on powering ecohouses using renewable energy - including wind, micro hydro and heat pumps - and an introduction to low-impact building materials such as lime, earth and hemp. New case studies from across the globe have been added to inspire readers with real-life examples of how to make an ecohouse work.