

## **Wood Gasifier Builders Bible Advanced Gasifier Plans To Build Your Own Wood Gas Generator Make Free Biofuel At Home**

[www.woodgasifierplans.com](http://www.woodgasifierplans.com) for downloads Complete construction plans to build a wood gasifier with step by step schematics and hundreds of pictures, part lists, budgets, material selection and much more. Plus, new to this edition is gasification theory, operations & troubleshooting checklists and the critical hearth sizing chart that allows you to properly tune your gasifier. Engineers will appreciate a set of wood gas energy values so they can make calculations. With a wood gasifier you hold the keys to modern civilization: - Fuel electric generators- Heat greenhouses- Pump well water- Make activated carbon All using the sticks and branches from your own property to make free fuel, safe at home... forever! Secure your homestead & rest in peace no matter what the future holds for you and your family. Get back to basics. Get back to a sustainable form of energy and a sustainable life. Get this book and build a high quality wood gasifier the first time.

Analysis of climate change policy innovations across North America at transnational, federal, state, and local levels, involving public, private, and civic actors. North American policy responses to global climate change are complex and sometimes contradictory and reach across multiple levels of government. For example, the U.S. federal government rejected the Kyoto Protocol and mandatory greenhouse gas (GHG) restrictions, but California developed some of the world's most comprehensive climate change law and regulation; Canada's federal government ratified the Kyoto Protocol, but Canadian GHG emissions increased even faster than those of the United States; and Mexico's state-owned oil company addressed climate change issues in the 1990s, in stark contrast to leading U.S. and Canadian energy firms. This book is the first to examine and compare political action for climate change across North America, at levels ranging from continental to municipal, in locations ranging from Mexico to Toronto to Portland, Maine. *Changing Climates in North American Politics* investigates new or emerging institutions, policies, and practices in North American climate governance; the roles played by public, private, and civil society actors; the diffusion of policy across different jurisdictions; and the effectiveness of multilevel North American climate change governance. It finds that although national climate policies vary widely, the complexities and divergences are even greater at the subnational level. Policy initiatives are developed separately in states, provinces, cities, large corporations, NAFTA bodies, universities, NGOs, and private firms, and this lack of coordination limits the effectiveness of multilevel climate change governance. In North America, unlike much of Europe, climate change governance has been largely bottom-up rather than top-down. Contributors Michele Betsill, Alexander Farrell, Christopher

Gore, Michael Hanemann, Virginia Haufler, Charles Jones, Dovev Levine, David Levy, Susanne Moser, Annika Nilsson, Simone Pulver, Barry Rabe, Pamela Robinson, Ian Rowlands, Henrik Selin, Peter Stoett, Stacy VanDeveer

Aerosol Science and Technology: History and Reviews captures an exciting slice of history in the evolution of aerosol science. It presents in-depth biographies of four leading international aerosol researchers and highlights pivotal research institutions in New York, Minnesota, and Austria. One collection of chapters reflects on the legacy of the Pasadena smog experiment, while another presents a fascinating overview of military applications and nuclear aerosols. Finally, prominent researchers offer detailed reviews of aerosol measurement, processes, experiments, and technology that changed the face of aerosol science. This volume is the third in a series and is supported by the American Association for Aerosol Research (AAAR) History Working Group, whose goal is to produce archival books from its symposiums on the history of aerosol science to ensure a lasting record. It is based on papers presented at the Third Aerosol History Symposium on September 8 and 9, 2006, in St. Paul, Minnesota, USA.

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Lignocellulosic wastes has been widely discussed as a promising natural chemical source and alternative feedstock for second-generation biofuels. However, there are still many technical and economic challenges facing its utilization. Lignin is one of the components of lignocellulosic biomass, and is the most rigid constituent and can be considered as a glue providing the cell wall with stiffness and the plant tissue with compressive strength. In addition, it provides resistance to chemical and physical damage. Resistance of lignocelluloses to hydrolysis is mainly from the protection of cellulose by lignin and cellulose binding to hemicellulose. The present book provides basic knowledge and recent research on different applications of biomass, focusing on the bioenergy and different pretreatment methods that overcome the aforementioned hurdles.

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.

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.

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.

If your interest is in distilling alcohol then this book is for you. It will show you how to build a six gallon electric alcohol still, and use it to turn corn, sugar, or almost anything you can ferment into high proof alcohol. The still heats the wash with a water jacket in which is immersed a 120 volt water heater element. Temperature is controlled with a thermostat. Eventually vapors boil through the rectifying column to the condenser. If you carefully maintain the precise temperature you will get almost pure alcohol.

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

Wood Gasifier Builder's Bible Off Grid Fuel for the Prepared Homestead: Wood Gas in Minutes

Heating with wood is often considered a natural and 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 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 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 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.

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.

"This book covers the U.S. Army's occupation of Berlin from 1945 to 1949. This time

includes the end of WWII up to the end of the Berlin Airlift. Talks about the set up of occupation by four-power rule."--Provided by publisher

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.

This book is written for those who would like to advance their knowledge beyond an introductory level of biomaterials or materials science and engineering. This requires one to understand more fully the science of materials, which is, of course, the foundation of biomaterials. The subject matter of this book may be divided into three parts: (1) fundamental structure-property relationships of man-made materials (Chapters 2-5) and natural biological materials, including biocompatibility (Chapters 6 and 7); (2) metallic, ceramic, and polymeric implant materials (Chapters 8-10); and (3) actual prostheses (Chapters 11 and 12). This manuscript was initially organized at Clemson University as classnotes for an introductory graduate course on biomaterials. Since then it has been revised and corrected many times based on experience with graduate students at Clemson and at Tulane University, where I taught for two years, 1981-1983, before joining the University of Iowa. I would like to thank the many people who helped me to finish this book; my son Yoon Ho, who typed all of the manuscript into the Apple Pie word processor; my former graduate students, M. Ackley Loony, W. Barb, D. N. Bingham, D. R. Clarke, J. P. Davies, M. F. DeMane, B. J. Kelly, K. W. Markgraf, N. N. Salman, W. J. Whatley, and S. o. Young; and my colleagues, Drs. W. Cooke, D. D. Moyle (Clemson G. H. Kenner (University of Utah), F. University), W. C. Van Buskirk (Tulane University), and Y.

Richard Drake has skillfully woven together the various strands of the Appalachian experience into a sweeping whole. Touching upon folk traditions, health care, the environment, higher education, the role of blacks and women, and much more, Drake offers a compelling social history of a unique American region. The Appalachian region, extending from Alabama in the South up to the Allegheny highlands of Pennsylvania, has historically been characterized by its largely rural populations, rich natural resources that have fueled industry in other parts of the country, and the strong and wild, undeveloped land. The rugged geography of the region allowed Native American societies, especially the Cherokee, to flourish. Early white settlers tended to favor a self-sufficient approach to farming, contrary to the land grabbing and plantation building going on elsewhere in the South. The growth of a market economy and competition from other agricultural areas of the country sparked an economic decline of the region's rural population at least as early as 1830. The Civil War and the sometimes hostile legislation of Reconstruction made life even more difficult for rural Appalachians. Recent history of the region is marked by the corporate exploitation of resources. Regional oil, gas, and coal had attracted some industry even before the Civil War, but the postwar years saw an immense expansion of American industry, nearly all of which relied heavily on Appalachian fossil fuels, particularly coal. What was initially a boon to the region eventually brought financial disaster to many mountain people as unsafe working conditions and strip mining ravaged the land and its inhabitants. A History of Appalachia also examines pockets of urbanization in Appalachia. Chemical, textile, and other industries have encouraged the development of urban areas. At the same time, radio, television, and the internet provide residents direct links to cultures from all over the world. The author looks at the process of urbanization as it belies commonly held notions about the region's rural character.

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Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a "fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

The Pied Piper pipes a village free of rats, and when the villagers refuse to pay him for the service he pipes away their children as well.

The Wood Gasifier Builder's Bible is a step-by-step construction manual to build a powerful woodgas generator with advanced features, yet needing only a minimal build budget. Wood gasification extracts the stored sunlight in wood to create a gaseous biofuel rich in hydrogen. It's like having your own personal scale natural gas refinery. How would you like to make your own free fuel... for life? Cut your utility bills, alt fuel vehicles and farm equipment or just go way off-grid. It's all possible using locally available wood you can pick up off the ground and a little known technology that helped kick off the Industrial Revolution. Does it work? It powered 1 million installations in Europe during WW2 and saved the continent. Now, this new book builds on those traditional WW2 designs and improves them dramatically with automation and advanced heat recycling for better performance and stronger, cleaner gas. This book is for you if you are a: biofueler, solar panel owner, back to the lander, off-gridder, hydrocarbon hacker, hydrogen enthusiast, prepper, patriot, survivalist, permaculturalist, welder, engineer, fabricator, blacksmith, wood worker, alternative fuel researcher, WW2 buff, inventor, tinkerer, or just a curious minded problem solver. Finally a construction manual that spells it out step-by-step and divulges the secrets to the lost art of wood gasifier construction in easy to follow detail. A must-have book in your library. Do it right the first time and save enormous amounts of time and money. The Wood Gasifier Builder's Bible will show you how.

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 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

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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.

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 around us to harnessing its power.

The only comprehensive book ever written on alcohol fuel production and use for home and farm. Until now, it has been very difficult for farmers, contractors, alternative energy aficionados, those concerned about Peak Oil, and small-scale entrepreneurs to obtain good, accurate information on producing alcohol, or on converting vehicles to run on the fuel. Now, Alcohol Can Be a Gas! provides the definitive reference on alcohol fuel. Simultaneous.

Are you one of those going 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 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 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!

Describes the scientific evidence for global warming and its likely consequences, and considers the political implications and what governments, businesses, and individuals can do about the phenomenon and the issues it evokes

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.

New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The

book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

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 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.

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.

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 (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 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.

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,



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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.

How would you go about rebuilding a technological society from scratch? If our technological society collapsed tomorrow what would be the one book you would want to press into the hands of the postapocalyptic survivors? What crucial knowledge would they need to survive in the immediate aftermath and to rebuild civilization as quickly as possible? Human knowledge is collective, distributed across the population. It has built on itself for centuries, becoming vast and increasingly specialized. Most of us are ignorant about the fundamental principles of the civilization that supports us, happily utilizing the latest—or even the most basic—technology without having the slightest idea of why it works or how it came to be. If you had to go back to absolute basics, like some sort of postcataclysmic Robinson Crusoe, would you know how to re-create an internal combustion engine, put together a microscope, get metals out of rock, or even how to produce food for yourself? Lewis Dartnell proposes that the key to preserving civilization in an apocalyptic scenario is to provide a quickstart guide, adapted to cataclysmic circumstances. The Knowledge describes many of the modern technologies we employ, but first it explains the fundamentals upon which they are built. Every piece of technology rests on an enormous support network of other technologies, all interlinked and mutually dependent. You can't hope to build a radio, for example, without understanding how to acquire the raw materials it requires, as well as generate the electricity needed to run it. But Dartnell doesn't just provide specific information for starting over; he also reveals the greatest invention of them all—the phenomenal knowledge-generating machine that is the scientific method itself. The Knowledge is a brilliantly original guide to the fundamentals of science and how it built our modern world.

A small-scale gasifier can provide off-grid electricity and motive power on demand using waste garden prunings and wood scraps. The technology, which is based on the ancient principles of charcoal production, flourished one hundred years ago until oil became cheap. In this book, energy engineer and UK gasification researcher Dr Andrew Rollinson explores the science, history, and potential of small-scale biomass gasifiers, along with providing detailed explanations on how to operate one successfully. For a readership which has to contend with dwindling fossil fuel reserves, increased energy prices, climate change, mountains of waste, and the modern version of a small-scale gasifier system, this book provides a helping hand. It will be relevant to those who want to assess whether the technology is right for them, but also serves as an operational guide for the gasifier operator, explaining what can go wrong, why, and how to achieve long-term operational success. Full colour. 170 pages.

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