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Learn some of Python's most popular libraries like BeautifulSoup, Matplotlib, Numpy, Requests, and Tkinter by scraping a website for aluminum alloy information, graphing satellite orbits, creating a GUI to convert different units, plotting airfoil coordinates, publishing programs to PDF, and more!

The story of the world's most audacious infrastructure project. Less than a decade ago, China did not have a single high-speed train in service. Today, it owns a network of 14,000 miles of high-speed rail, far more than the rest of the world combined. Now, China is pushing its tracks into Southeast Asia, reviving a century-old colonial fantasy of an imperial railroad stretching to Singapore; and kicking off a key piece of the One Belt One Road initiative, which has a price tag of \$1 trillion and, reaches inside the borders of more than 60 countries. The Pan-Asia Railway portion of One Belt One Road could transform Southeast Asia, bringing shiny Chinese cities, entire economies, and waves of migrants where none existed before. But if it doesn't succeed, that would be a cautionary tale about whether a new superpower, with levels of global authority unimaginable just a decade ago, can pull entire regions into its orbit simply with tracks, sweat, and lots of money. Journalist Will Doig traveled to Laos, Thailand, Malaysia, and Singapore to chronicle the dramatic transformations taking place -- and to find out whether ordinary people have a voice in this moment of economic, political, and cultural collision.

The title 8 Romances immediately conjures up images of 8 love stories. So, is 8 Romances a collection of 8 love stories? Yes and No ... 8 Romances is the author's love affair with 8 issues of GLOBAL interest ... issues that universally impact happiness and everyday living ... Chor Hoong calls for a quickening of the pace of the environmental movement in her home country ... She has ideas on how to strengthen one's national identity and how we can be more socially gracious citizens ... She shows concern for the worldwide phenomenon of a weakening of the institution of marriage. She calls upon graduate women to fall in love, to be married and to have children. She shares her own rewarding experiences with romance, marriage and parenting ... She calls for positive thinking ... She advocates living life to the fullest by injecting a stronger dose of PASSION in everything we do, with the motto: Anything that is worth doing is worth being passionate over !

World acclaimed scientist Vaclav Smil reveals everything there is to know about nature's most sought-after resource Oil is the lifeblood of the modern world. Without it, there would be no planes, no plastic, no exotic produce, and a global political landscape few would recognise. Humanity's dependence upon oil looks set to continue for decades to come, but what is it? Fully updated and packed with fascinating facts to fuel dinner party debate, Professor Vaclav Smil's Oil: A Beginner's Guide explains all matters related to the 'black stuff', from its discovery in the earth right through to the controversy that surrounds it today.

Diversity initiatives are falling short. This book shows leaders how to develop the skills needed to build sustainably inclusive organizations using a tested, research-based model developed by the global organizational consulting firm Korn Ferry. According to the journal Human Resource Management, companies are spending over \$8 billion a year on diversity programs. Yet today, the senior leadership teams at Fortune 500 companies are far from mirroring the diversity of its workforce and its customers. Andrés Tapia and Alina Polonskaia, senior leaders at Korn Ferry, argue that to build sustainable diversity and inclusion, organizations need to have inclusive leaders at all levels. In this book, Tapia and Polonskaia draw on Korn Ferry's massive database of 3 million leadership assessments to reveal the essential qualities of inclusive leaders. They discuss the personality traits these leaders share and detail how to develop what they call the five disciplines of inclusive leadership: building interpersonal trust, integrating diverse perspectives, optimizing talent, applying an adaptive mindset, and achieving transformation. Tapia and Polonskaia also outline the competencies behind each discipline, describe individual and organizational exemplars of inclusive leadership, and show how the five disciplines enable leaders to unleash the power of all people and to build both structurally and behaviorally inclusive organizations. This book will help leaders foster the skills to deal with today's complex challenges and create a more inclusive, sustainable, and prosperous future for all of us.

He's the last thing on your mind when you finally drift into dreamland every night ... He's the first thing on your mind when you wake up every morning ... Count-down for the next date starts at the end of every date ... Your mind is full of him ... You cannot focus on anything ... You are always stealing glances at your handphone, looking out for messages from him ... You are always thinking of buying him a gift, sparing no effort in making it the prettiest gift in the world ... Do you like this feeling? The feeling of being madly in love? Don't know about you; I am obsessed with it. Age does not seem to matter. Kids are boisterous monkeys. When they are NOT yours. When they are yours, they are ANGELS! Marriage is the institution to produce and nurture angels. How can anyone possibly ostracize marriage? Romancing into marriage and parenting – isn't that what life is all about? How can life possibly be complete without these elements?

This collection of behind-the-scenes happenings from the history of the beloved stock car series shares stories of the great and the infamous, revealing privy insights into the drivers that fans thought they knew everything about. The book grants a glimpse into Buck Baker's tomato juice incident, how his son Buddy Baker landed face first in the mud on an ambulance stretcher, Dale Earnhardt's 1997 Daytona 500 rolling crash and how he famously went from ambulance to car to complete the race, Tony Stewart's realization that racing was the ideal career choice, and how Jeff Gordon "misplaced" his commemorative Richard Petty money clip. Race fans with allegiance to any era of NASCAR, past or present, will feel drawn into the inner circle of the drivers after sharing in these inside stories that are worth the telling.

You definitely want to have a good guide on everything you need to succeed in the trucking business industry. This book will keep you out of trouble in all facets trucking business. The trucking industry has the luxury of being able to recover from small miscues, but not many of books out there go the the length this book goes to discuss matters Trucking. In this book you'll learn.!

- Define The Role Of The Broker And Agent
- Here's How The Industry Works
- Why Get Operating Authority
- Financial
- Shipping Own Product
- More Home Time
- Region And Customers
- The Money In Trucking
- Abide By The Industry's Standards
- Satisfy The Steps To Become An Agent
- Understand The Industry's Work Environment
- Familiarize Yourself With Industry Terms
- Build The Steps To Become A Broker
- Consider The Big Picture
- What You Can Expect
- Mechanical Problems
- Regulatory Problems
- Financial Problems
- Communication Problems
- What To Spend (Or Not Spend) Money On
- Good Investments
- Bad Investments
- Step Nine Discover Self Pace & Time Management Success

About the Expert Bruce Stimson started his factoring career in 2001, when he founded QLFS, which eventually became the Invoice Trucking Group. Mr. Stimson led the firm through its initial growth and established it as a leading provider to startups and small companies in the New England region. After QLFS, Mr. Stimson launched Trucking Capital LLC to provide services in the USA, Canada and Australia. Under his leadership, Trucking Capital LLC has expanded to offer a number of business finance products and can help companies in most industries. Trucking Capital LLC is one of the few companies that offers micro-factoring (also called small-ticket factoring), which helps early-stage companies with limited revenues. Small business factoring has been ignored by larger factoring firms and banks, establishing Mr. Terry as a pioneer in this market. Before starting his career in finance, Mr. Stimson held several management positions in operations and marketing in the telecommunications industry for eight years. He earned a Master's Degree in Finance with a concentration in banking. HowExpert publishes quick 'how to' guides on all topics from A to Z by everyday experts.

With color and verve, Gregory J. W. Urwin presents the history of the mounted forces of the United States. He combines combat reports, personality profiles, and political and social overviews

to present a complete picture of a bygone era extending from the Revolutionary War well into the twentieth century. For more than a century, the U.S. Cavalry played a prominent role in American military conflicts, serving as both a frontier police force and as a major combat arm in the republic's conventional wars. Urwin begins his story in New York City in 1776 with the Continental Light Dragoons and continues it through the days of the "pony soldiers" of the western plains, including detailed coverage of Lieutenant Colonel George Armstrong Custer's 7th Cavalry Regiment. Urwin concludes with descriptions of General John J. Pershing's 1916 Punitive Expedition into Mexico and the exploits of the 26th U.S. Cavalry, the only United States mounted outfit to see combat in World War II, during the defense of the Philippines in 1941-42.

Slow learner Daniel Martin escapes peer teasing by spending most of his time outdoors, and when a van crash plunges him and a gang of bullies in the river, Daniel must choose between saving himself and risking his life to save the others.

The IBSS is the essential tool for librarians, university departments, research institutions and any public or private institutions whose work requires access to up-to-date and comprehensive knowledge of the social sciences.

With his legendary wit and irreverence, Mungo MacCallum recounts the events of the 2007 election year. This is a book that will be rush-released, to be on shelves within a couple of weeks of the election result. The 2007 campaign promises to be one of the most hard-fought on record - a battle of ideas, personalities and parties. As well as the leaders, there is a memorable supporting cast including Garrett, Gillard, Costello, Downer, Abbott and Turnbull. Combining observation, analysis and storytelling in hilarious fashion, MacCallum tracks the fortunes of the players right up until the final votes are in.

The Cat Paving Products Guide to Asphalt Compaction is an information-packed, easy-to-read resource that is supported by more than 180 color photos and illustrative graphic elements. The 'Arab Spring' of 2011 has affected the countries of the region to varying degrees, including the Gulf Cooperation Council (GCC) members, comprising Saudi Arabia, Kuwait, Qatar, the United Arab Emirates, Oman and Bahrain. The GCC has become a significant regional bloc playing a vital economic and political role far beyond its shores, given its geopolitical strategic location, a preponderance of global energy reserves and a major international player through the use of accumulated financial reserves. A new Gulf is rising, one that is more self assertive, looking to expand its membership to other Arab countries such as Jordan and Morocco, while at the same time strengthening the bloc's relationship with current and emerging trading and strategic partners in Europe, USA and Asia. Regional and international realities, especially the uncertainties unleashed by the 'Arab Spring', are forcing Gulf leadership to initiate new policies involving closer cooperation amongst GCC countries to address emerging challenges. This volume brings together thirty renowned academics and specialists to examine a range of multifaceted social, political and economic issues facing the GCC in key areas such as: · Diversification from a high dependency on a narrow hydrocarbon base · Social transformation, youth employment and effective gender participation · Outward and inward foreign direct investment flows · Prospects for education reforms and e-learning. · Sustainable security in oil, renewable energy (including nuclear) and food · Corporate governance, transparency and enhancing the private sector's operating environment · The role and governance of Gulf Sovereign Wealth Funds in investing their surpluses. The volume also offers insights for challenges facing the GCC in monetary union, expanding the regional debt market and Sukuk issuance, GCC intellectual property rights application, detailed assessments of individual GCC country risk analysis, as well as the sustainability of long term government fiscal stimulus programs at the expense of private sector involvement.

A witty and romantic novel of Regency love, family and appalling scandal, from a latter-day Jane Austen When their strait-laced, domineering father, Sir Clement Carnell, dies, Valentine throws open their Devonshire estate of Pennacombe to their fashionable cousins from London and Louisa feels free at last to reject the man Sir Clement wanted her to marry. Soon, the temptations of Regency London beckon, including the beautiful, scandalous, and very married Lady Harriet Eversholt, with whom Valentine becomes dangerously involved. Meanwhile, Louisa finds that freedom of choice is as daunting as it is exciting. Will the opportunity to indulge in a little folly lead to fulfillment—or disaster? A Little Folly is a novel to make Jane Austen proud and Georgette Heyer envious. An acclaimed author of historical fiction, Jude Morgan weaves together the very best of Regency era writing with "refreshingly original characters, an intriguing plot, and an elegantly ironic style." (RT Book Reviews on Indiscretion). In this exciting new novel, Morgan delivers a story that, yet again, will bring cheers from critics and readers alike.

UezenA Science Fiction NovelWildside Press LLC

Lifelong landscape design means thinking about more than your garden. It involves encouraging your community to be a well-rooted environment consisting of friends who share home-grown produce, walk in the neighborhood, recycle, water harvest, compost and are watchful of each other's well-being. Lifelong landscape designs create environments that connect with nature, encompass a home, and promote healthy living by providing mobility, social interaction, and places to sustain the body and soul. Learn easy steps to design your own lifelong landscape through more than 200 landscape patterns and activities that illustrate components of healthy living. Enhance the quality of your life at any stage with practical advice from this inspirational landscape architect with more than 30 years experience.

This book offers new approaches and insights into the relationships between heritage tourism and notions of modernity, identity building and sustainable development in China. It demonstrates that the role of the state, politics, institutional arrangements and tradition have a considerable impact on perceptions of these notions. The volume contributes to current debates on tradition and modernity; the study of heritage tourism; the negotiated power between stakeholders in tourism planning and policy-making and the study of China's society. The approach and findings of the book are of value to those interested in the continuities and changes in Chinese society and to graduate students and researchers in tourism, cultural studies and China studies.

Violence is one of the most important challenges, not only for public health systems, but also for public mental health. Violence can have immediate as well as long-term and even transgenerational effects on the mental health of its victims. This book provides a comprehensive and wide-ranging assessment of the mental health legacy left by violence. It addresses the issues as they affect states, communities and families, in other words at macro-, meso- and microlevels, beginning by describing the impact of violence on neurobiology and mental health, as well as the spectrum of syndromes and disorders associated with different forms of violence. The work moves on to tackle violence at the international—and intranational—level before zeroing in on the nature of violence in communities such as villages or city districts. It also examines the results of violence in the family. Each type of violence has distinct effects on mental health and in each chapter specific groups are explored in depth to demonstrate the heterogeneity of violence as well as the diversity of its outcomes in the realm of public mental health. Finally, the book addresses the notion of 'undoing violence' by detailing case studies of effective interventions and

prevention occurring in countries, communities and families. These cases give us pause to reflect on the nature of resilience and dignity in the context of violence and mental health. All the chapters have been written by leading authors in the field and provide a state-of-the-art perspective. The authors, from different fields of expertise, facilitate interdisciplinary and international insights into the impact of violence on mental health.

A compilation of baseball trivia, facts, information, and statistics features interviews with key personalities and little-known anecdotes.

The King of Mercenaries, Zhang Xiaobin, returned to the city and became a waiter in a small bar. Not only did he take away the top quality beauty, the boss, but he also managed to fool the beautiful female police. Even the beautiful maid Zhang Xiaobin, the peerless female assassin, and the beautiful widow fell in love with him.

Diode, Transistor and FET Circuits Manual is a handbook of circuits based on discrete semiconductor components such as diodes, transistors, and FETS. The book also includes diagrams and practical circuits. The book describes basic and special diode characteristics, heat wave-rectifier circuits, transformers, filter capacitors, and rectifier ratings. The text also presents practical applications of associated devices, for example, zeners, varicaps, photodiodes, or LEDs, as well as it describes bipolar transistor characteristics. The transistor can be used in three basic amplifier configurations, such as common-collector, common-emitter, or common-base. Oscillators and multivibrators use transistors as linear amplifying elements or as digital switching elements, respectively. In other practical applications, bipolar transistors are used in audio pre-amp, tone control, and power amplifier applications. For example, the book illustrates the ideal form and location of the volume control where it is fully d.c-isolated from the pre-amplifier's output. The book cites other applications of transistor circuits in a noise limiter, in astable multivibrators, in L-C oscillators, and in lie detectors. This book is suitable for radio, television, and electronics technicians, design and application engineers, and students in electronics or radio communications.

Industrial Construction Estimating Manual focuses on industrial process plants and enables the contractor, subcontractor, and engineer to use methods, models, procedures, formats, and technical data for developing industrial process plant construction estimates. The manual begins with an introduction devoted to labor, data collection, verification of data, coding, productivity measurement, the unit quantity model, and computer-aided cost estimating. It goes on to provide information on construction materials, database systems, work estimating, computer-aided estimating, detailed labor estimates, bid assurance, and detailed applications to construction. Practical examples based on historical data collected from past installations are also included as well as a detailed glossary, Excel and mathematical formulas, metric/standard conversions, area and volume formulas, and boiler man-hour tables. Industrial Construction Estimating Manual aids contractors, subcontractors, and engineers with a balance-detailed estimating method using the unit quantity model and is an excellent resource for those involved in engineering, technology, and construction estimating. Provides a detailed estimating method using the unit-quantity model to prepare construction estimates Delivers information on construction materials, databases, labor estimates, computer-aided estimating, bid assurance, and applications to construction. Utilizes historical data, from a database of previous similar work, calculates material cost and labor by category, and produces both summary and detailed man-hour and cost estimates.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This book is intended for those new to the use and abuse of centrifugal pumps. It is also for those whose involvement with pumps is so occasional, that they need a reminder of the basics.

Sixteen boisterous, rhyming poems — each one highlighting the job and personality of a different vehicle, from a backhoe to an ambulance to a snowplow — invite young children to meet their favorite trucks face-to-face. Cheerful illustrations show each one in action, digging (or dozing, or dumping) away. Engaging visual details like an anxious turtle crossing the street just ahead of a steamroller are sure to keep preschoolers poring over the pages as they consider the question, “Trucks as far as eyes can see. . . . Which truck would you like to be?”

This book constitutes the refereed conference proceedings of the 4th International Conference on Emerging Technologies in Computing, iCEtiC 2021, held in August 2021. Due to COVID-19 pandemic the conference was held virtually. The 15 revised full papers were reviewed and selected from 44 submissions and are organized in topical sections covering Information and Network Security; Cloud, IoT and Distributed Computing; AI, Expert Systems and Big Data Analytics

Automotive Scan Tool PID Diagnostics (Diagnostics Strategies of Modern Automotive Systems) By Mandy Concepcion In this section, the different techniques of scan tool parameter (PID) analysis will be exposed. Techniques involving PID analysis are quickly catching on, due to their speed and accuracy. By properly analyzing the different scanner PIDs, the technician can arrive at the source of the problem much faster and accurately. These procedures give rise to the new term “driver seat diagnostics”, since most of the preliminary diagnostic work is done through the scanner. However, these techniques will in no way replace the final manual tests that are a part of every diagnostic path. They are simply geared to point the technician in the right direction. Table of Contents INTRODUCTION (Introduction to scan tool diagnostics and the relevance of using PIDs or scanner parameter to perform the first leg of all diagnostics.) - Theory of Operation Behind the Different PIDs (Describes CARB, the difference between generic and enhanced PIDs, the FTP) - OBD II Generic PIDs (PID calculated and actual values, calculated data relationships, base injection timing, ECM value substitution) - OBD I & II General PID analysis (erasing code-or not, recording, analyzing and pinpoint tests, separating PIDs into groups) - Fuel Delivery Fault Detection (fuel delivery issues, intake air temp. sensor, BARO sensor, Engine LOAD, RPM PID, Short-Term Fuel Trims, Long-Term Fuel Trims, 60% of check engine light issues, block learn/integrators, Example 1: injector fault, Example 2: intake gasket issues, fuel status, ignition timing, MAP/MAF, TPS, O2 sensor, IAC, Closed Throttle, injector pulse width, voltage power, injector dutycycle, fuel trim cell) - Test #1 (Determining an engine's fuel Consumption (rich-lean operation, duty-cycle to fuel trim relationship, O2 sensor to fuel trim relation, FT and

vacuum leaks, ignition timing and idle control, test conclusion) - Test # 2 (Misfire Detection Strategy, EGR, Ignition and Mechanical misfires) (misfires and OBD2, scanner misfire detection – a time saver, OBD2 40 and 80 cycle misfire, ignition, injector and EGR density misfire, coil-on-plug, misfires and O2 sensor, lean O2 & Secondary misfire, O2 sensor & injector misfires, leaky injector, EGR and the MAP, Type A, B, C misfires, test conclusion) - Test # 3 (Air/Fuel Ratio Faults) (air-fuel imbalance, MAF and post O2 sensors, open-closed-loop, fuel enable, HC & CO relation to AF issues, test conclusion) - Test # 4 (BARO, MAP & MAF PID analysis) (MAP & valve timing faults, ECM behavior, fuel delivery or duty cycle test, volumetric efficiency, , test conclusion) - Test # 5 (Clogged exhaust) (clogged catalytic converter detection, TPS, MAF and converters, idle and WOT or wide open throttle values, vacuum readings, MAP to WOT charts analysis, engine and MAP vacuum, test conclusion) - Test # 6 (EGR Fault Detection) (EGR and MAP values, ECM reaction to EGR issues, EGR temp sensor, DPFE sensor, EGR and O2-MAP and lift position sensor, EGR and engine pre-loading, EGR and the ECM erroneous high LOAD issues, test conclusion) - Test # 7 (O2 Sensor Heater) (O2 heaters and why?, tough to check O2 heater issues, O2 heater effect on signal output, O2 heater bias voltage, engine off and O2 changing value, test conclusion) - Test # 8 (Resetting Fuel Trims) (resetting injection pulse corrections, long-term and short-term fuel trims, learn condition, Lambda, case study on fuel trims, FT resetting according to manufacturer, test conclusion) - Test # 9 (Engine Cranking Vacuum Test) (MAP/MAF cranking vacuum, vacuum to PID analysis, vacuum leaks, gauge-PID test, sources of leaks, cranking values, test conclusion)

With the oil and gas industry facing new challenges—deeper offshore installations, more unconventional oil and gas transporting through pipelines, and refinery equipment processing these opportunity feedstocks--new corrosion challenges are appearing, and the oil and gas industry's infrastructure is only as good as the quality of protection provided and maintained. Essentials of Coating, Painting, and Linings for the Oil, Gas, and Petrochemical Industries is the first guide of its kind to directly deliver the necessary information to prevent and control corrosion for the components on the offshore rig, pipelines underground and petrochemical equipment. Written as a companion to Cathodic Corrosion Protection Systems, this must-have training tool supplies the oil and gas engineer, inspector and manager with the full picture of corrosion prevention methods specifically catered for oil and gas services. Packed with real world case studies, critical qualifications, inspection criteria, suggested procedure tests, and application methods, Essentials of Coating, Painting, and Linings for the Oil, Gas and Petrochemical Industries is a required straightforward reference for any oil and gas engineer and manager. Understand how to select, prime and apply the right coating system for various oil and gas equipment and pipelines – both upstream and downstream Train personnel with listed requirements, evaluation material and preparation guides, including important environmental compliance considerations Improve the quality of your equipment, refinery and pipeline with information on repair and rejection principles

Water plays a vital role in shaping our built environment, as it has done for centuries. We depend on it, we use it, we live with it and we must respect it. Aquatecture is the first book to outline new ways of 'designing for water,' using examples from around the world to illustrate methods of utilizing water innovatively, efficiently and safely. The first part of the book explores the historical relationship between water and architecture, examining how cities and civilisations have been drawn to water and have attempted to control it. The chapters go on to assess how this relationship has changed over time, and introduce readers to a range of brand new techniques that will revolutionise the way we think about water, design and urban planning. Solutions such as amphibious housing, wet-proof buildings, zero carbon development, rain gardens, flood storage and new methods of waterfront design are discussed and their effectiveness assessed. Full colour illustrations and international case studies are used throughout the book to bring these new theories to life; practical, technical advice sits alongside truly ground-breaking and ambitious ideas for the future. This book is an ideal reference tool for all architects, urban designers, planners and sustainability experts who have an interest in creating a beautiful, sustainable, intelligent and pleasurable built environment on land, in water and with water.

How Cool Are Penguins is a book that will introduce young children to the world of penguins. It is written and illustrated in a fun and informative way that will entertain both the young and the young at heart.

Democles and Z'Davaar, the equivalents of God and the Devil, agree to create the first humans and place them on the planet of Eden. The Edeneans subsequently spread their race throughout the galaxy, but, when their most important sun goes nova, the survivors begin falling ill and dying. In order to prevent their total extinction, they build the Arka and head for the nearest wormhole. But on their way there they have to fight Anuk, who has agreed to obey Z'Davaar's orders and destroy the other Edeneans, in order to have his lover resurrected. Only Lerman Kruger has the strength to oppose him... A philosophical science fiction adventure that spans the entire galaxy!

The definitive guide from the world's best-known sailboat maintenance expert Don Casey's Complete Illustrated Sailboat Maintenance Manual combines six core volumes into a single, utterly dependable resource that answers every frequent question, explains every major system, and helps you keep your boat and its components shipshape. More than 2,500 clear and detailed illustrations guide you step by step through every procedure. Casey's technical virtuosity, his user-friendly explanations, and Peter Compton's diesel engine expertise make even the more complicated repairs and improvements easy to understand. This must-have guide saves you time, money, and grief as you learn the fastest, easiest, most effective ways to: Evaluate the condition of your boat or one you're about to purchase Repair structural damage to your fiberglass sailboat Improve or repair your sailboat's electrical system Troubleshoot, maintain, and repair your boat's diesel engine Put a professional-looking finish on your boat's hull, deck, spars, wood, and trim Make and repair sails, sail covers, dodgers, awnings, sailbags, and bimini tops

Keith McCord recounts the history of automotive onboard diagnostic systems and creation of the rudimentary OBD I systems and the development as well as the evolution of OBD II. Currently,

OBD-II (OnBoard Diagnostic II) is the standard of the industry, and this book provides a thorough explanation of this system. It details its main features, capabilities, and characteristics. It shows how to access the port connector on the car, the serial data protocols, and what the serial data means. To understand the diagnostic codes, the numbering system is defined and the table of common DTCs is shown. But most importantly, McCord provides a thorough process for trouble shooting problems, tracing a problem to its root, explaining why DTCs may not lead to the source of the underlying problem, and ultimately resolving the problem.

Understanding why and how failures occur is critical to failure prevention, because even the slightest breakdown can lead to catastrophic loss of life and asset as well as widespread pollution. This book helps anyone involved with machinery reliability, whether in the design of new plants or the maintenance and operation of existing ones, to understand why process equipment fails and thereby prevent similar failures.

A short and entertaining introduction to thermodynamics that uses real-world examples to explain accessibly an important but subtle scientific theory A romantic description of the second law of thermodynamics is that the universe becomes increasingly disordered. But what does that actually mean? Starting with an overview of the three laws of thermodynamics, MacArthur "genius grant" winner R. Stephen Berry explains in this short book the fundamentals of a fundamental science. Readers learn both the history of thermodynamics, which began with attempts to solve everyday engineering problems, and ongoing controversy and unsolved puzzles. The exposition, suitable for both students and armchair physicists, requires no previous knowledge of the subject and only the simplest mathematics, taught as needed. With this better understanding of one science, readers also gain an appreciation of the role of research in science, the provisional nature of scientific theory, and the ways scientific exploration can uncover fundamental truths. Thus, from a science of everyday experience, we learn about the nature of the universe.

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