

Sulzer Rta 52 Engine Manual

Bruce Dancis arrived at Cornell University in 1965 as a youth who was no stranger to political action. He grew up in a radical household and took part in the 1963 March on Washington as a fifteen-year-old. He became the first student at Cornell to defy the draft by tearing up his draft card and soon became a leader of the draft resistance movement. He also turned down a student deferment and refused induction into the armed services. He was the principal organizer of the first mass draft card burning during the Vietnam War, an activist in the Resistance (a nationwide organization against the draft), and a cofounder and president of the Cornell chapter of Students for a Democratic Society. Dancis spent nineteen months in federal prison in Ashland, Kentucky, for his actions against the draft. In *Resister*, Dancis not only gives readers an insider's account of the antiwar and student protest movements of the sixties but also provides a rare look at the prison experiences of Vietnam-era draft resisters. Intertwining memory, reflection, and history, Dancis offers an engaging firsthand account of some of the era's most iconic events, including the 1963 March on Washington for Jobs and Freedom, the Abbie Hoffman-led "hippie invasion" of the New York Stock Exchange, the antiwar confrontation at the Pentagon in 1967, and the

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dangerous controversy that erupted at Cornell in 1969 involving African American students, their SDS allies, and the administration and faculty. Along the way, Dancis also explores the relationship between the topical folk and rock music of the era and the political and cultural rebels who sought to change American society.

Exhaustive Coverage of the Following Topics 1. Watch keeping 2. Engine running problems 3. Camshaft-less electronically controlled intelligent engines 4. Indicator card analysis 5. Engine performance and testing 6. Latests developments 7. Engine overhauls 8. Engine emission 9. Starting and reversing 10. Manoeuvring 11. Bridge control 12. VIT and Super-VIT 13. Faults, defects and problems of all engine components.

The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion,

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seakeeping and maneuvering. The marine environment and maritime safety are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA. is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics. * A comprehensive overview from best-selling authors including Bryan Barrass, Rawson and Tupper, and David Eyres * Covers basic and advanced material on marine engineering and Naval Architecture topics * Have key facts, figures and data to hand in one complete reference book

In 1988, IARC classified diesel exhaust as probably carcinogenic to humans (Group 2A). An Advisory Group which reviews and recommends future priorities for the IARC Monographs Program had recommended diesel exhaust as a high priority for re-evaluation since 1998. There has been mounting concern about the cancer-causing potential of diesel exhaust, particularly based on findings in epidemiological studies of workers exposed in various settings. This was re-emphasized by the publication in March 2012 of the results of a large US

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National Cancer Institute/National Institute for Occupational Safety and Health study of occupational exposure to such emissions in underground miners, which showed an increased risk of death from lung cancer in exposed workers. The scientific evidence was reviewed thoroughly by the Working Group and overall it was concluded that there was sufficient evidence in humans for the carcinogenicity of diesel exhaust. The Working Group found that diesel exhaust is a cause of lung cancer (sufficient evidence) and also noted a positive association (limited evidence) with an increased risk of bladder cancer (Group 1). The Working Group concluded that gasoline exhaust was possibly carcinogenic to humans (Group 2B), a finding unchanged from the previous evaluation in 1989.

Research on driver behaviour over the past two decades has clearly demonstrated that the goals and motivations a driver brings to the driving task are important determinants for driver behaviour. The objective of the Driver Behaviour and Training volumes, and of the conference on which they are based, is to describe and discuss recent advances in the study of this important area. It bridges the gap between practitioners in road safety and theoreticians investigating driving behaviour, from a number of different perspectives and related disciplines. Educating drivers to be safe for life means a shift in focus

from simply developing vehicle-handling skills towards ensuring that drivers are aware of how goals and motivations can influence decision-making throughout their driving career. A major focus within this fourth volume is to consider how driver training needs to be adapted in order to raise awareness of how human factors contribute to unsafe driving behaviour. From this it goes on to promote the development of driver education that considers all the skills that are essential for road safety. The readership will include road safety researchers from a variety of different academic backgrounds, senior practitioners in the field of driver training from regulatory authorities and professional driver training organisations such as the police service, and private and public sector personnel.

Today's shortages of resources make the search for wear and corrosion resistant materials one of the most important tasks of the next century. Since the surface of a material is the location where any interaction occurs, it is that there the hardest requirements on the material are imposed: to be wear resistant for tools and bearings; to be corrosion resistant for turbine blades and tubes in the petrochemical industry; to be antireflecting for solar cells; to be decorative for architectural panels and to combine several of these properties in other applications. Surface engineering is the general term that incorporates all the techniques by which a surface modification can be accomplished. These

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techniques include both coating and modification of the surface by ion implantation and laser beam melting. In recent years a continuously growing number of these techniques were developed to the extent that it became more and more difficult to maintain an overlook and to understand which of these highly differentiated techniques might be applied to resolve a given surface engineering problem. A similar development is also occurring for surface characterization techniques. This volume contains contributions from renowned scientists and engineers to the Eurocourse the aim of which was to inform about the various techniques and to give a comprehensive survey of the latest development on this subject.

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

"Measuring Tools" by Various Authors. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten?or yet undiscovered

gems?of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Promoting Economic Cooperation in South Asia: Beyond SAFTA examines the distinct development dichotomy that exists in South Asia and tries to find a workable solution to bridge this gap. In spite of rapid economic growth since 1980, there is extensive poverty and inequality in South Asia. This dichotomy has two faces: one is highly urbanized and well-linked to global markets, and the other is rural, isolated from the global economy, and growing very slowly. The large bulk of South Asia's poor live in the latter environment. The book brings together perspectives from academics, the private sector, civil society and policy makers. Using solid empirical evidence and sound analysis, it stresses that in addition to policy and institutional reforms aimed at removing domestic constraints to growth and job creation, market integration and regional cooperation ought to be key elements of a strategy for removing the dichotomy and eliminating poverty in the longer term. Delving into major political economic issues of the SAARC region, the book analyzes SAFTA, bilateral FTAs, transportation, regional integration, regulatory mechanisms, food prices, labor

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and employment, and tourism. It also provides an analysis of why past cooperation efforts have not worked and how better cooperation can be achieved in specific areas. It looks at the many policy and institutional constraints that contribute to the present state and have made South Asia one of the least integrated regions of the world. The book will be a very useful reference for researchers, scholars and bilateral and multilateral financial institutions and donor groups interested in South Asia's development. Policy makers and think tanks focusing on economics, political science, and international relations will also find it beneficial.

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

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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.

This book offers a comprehensive and timely overview of internal combustion engines for use in marine environments. It reviews the development of modern four-stroke marine engines, gas and gas–diesel engines and low-speed two-stroke crosshead engines, describing their application areas and providing readers with a useful snapshot of their technical features, e.g. their dimensions, weights, cylinder arrangements, cylinder capabilities, rotation speeds, and exhaust gas temperatures. For each marine engine, information is provided on the manufacturer, historical background, development and technical characteristics of the manufacturer's most popular models, and detailed drawings of the engine, depicting its main design features. This book offers a unique, self-contained reference guide for engineers and professionals involved

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in shipbuilding. At the same time, it is intended to support students at maritime academies and university students in naval architecture/marine engineering with their design projects at both master and graduate levels, thus filling an important gap in the literature.

This manual, first published in 1943, has been indispensable to ships engineers for generations. The third edition, revised and updated by a team of marine engineers/professors, follows in the venerable style of its predecessors. Text relating to obsolete equipment has been eliminated, information on systems that are still current has been updated, and new material has been added to reflect innovations in equipment and operative practices. Extensive coverage on the newest medium-speed diesel engine has been added to the text. Environmental concerns have been recognized with a section on engine exhaust emissions and information about new refrigerants and the maintenance of refrigeration systems. New equipment for trash handling, sewage processing, bilge water discharge, and incineration are discussed with reference to international regulations. Ship trial procedures and the new equipment used in trial data collection are presented in detail.

This report explains the grounding of the United States oil tanker Exxon Valdez on March 24, 1989. Safety issues discussed include the navigation watch, role of

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human factors, manning standards, the company's drug/alcohol testing and rehabilitation program, vessel traffic service, and oil spill response. Includes safety recommendations, maps.

Now in its fourth edition, Introduction to Internal Combustion Engines remains the indispensable text to guide you through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice is sure to help you understand internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. Introduction to Internal Combustion Engines: - Is ideal for students who are following specialist options in internal combustion engines, and also for students at earlier stages in their courses - especially with regard to laboratory work - Will be useful to practising engineers for an overview of the subject, or when they are working on particular aspects of internal combustion engines that are new to them - Is fully updated including new material on direct injection spark engines, supercharging and renewable fuels - Offers a wealth of worked examples and end-of-chapter questions to test your knowledge - Has a solutions manual available online for lecturers at www.palgrave.com/engineering/stone

The history of aesthetics, like the histories of other sciences, may be treated in a

two-fold manner: as the history of the men who created the field of study, or as the history of the questions that have been raised and resolved in the course of its pursuit. The earlier History of Aesthetics (3 volumes, 1960-68, English-language edition 1970-74) by the author of the present book was a history of men, of writers and artists who in centuries past have spoken up concerning beauty and art, form and creativity. The present book returns to the same subject, but treats it in a different way: as the history of aesthetic questions, concepts, theories. The matter of the two books, the previous and the present, is in part the same; but only in part: for the earlier book ended with the 17th century, while the present one brings the subject up to our own times. And from the 18th century to the 20th much happened in aesthetics; it was only in that period that aesthetics achieved recognition as a separate science, received a name of its own, and produced theories that early scholars and artists had never dreamed of. This book is a printed edition of the Special Issue "Design and Engineering of Microreactor and Smart-Scaled Flow Processes" that was published in Processes

Zoonoses are infectious diseases that can be transmitted from animals (both wild and domestic) to humans. A significant number of emerging and re-emerging waterborne zoonotic pathogens have been recognised over recent decades,

such as SARS, E. coli, campylobacter and cryptosporidium. This publication assesses current knowledge about waterborne zoonoses and identifies strategies and research needs for anticipating and controlling future emerging water-related diseases, in order to better protect the health of both humans and animals. It is based on the discussions of a workshop held in the United States in September 2003, which included 29 experts from 14 countries and diverse disciplines including microbiology, water epidemiology, medicine, sanitary engineering, food safety and regulatory policy.

Applied Hydraulic Transients, 3rd Edition covers hydraulic transients in a comprehensive and systematic manner from introduction to advanced level and presents various methods of analysis for computer solution. The book is suitable as a textbook for senior-level undergraduate and graduate students as well as a reference for practicing engineers and researchers. The field of application of the book is very broad and diverse and covers areas such as hydroelectric projects, pumped storage schemes, water-supply systems, cooling-water systems, oil pipelines and industrial piping systems. A strong emphasis is given to practical applications: several case studies, problems of applied nature, and design criteria are included. This will help the design engineers and introduce the students to real-life projects. Up-to-date references are included at the end of each chapter.

Modern Marine Internal Combustion Engines A Technical and Historical Overview Springer Nature

Mechanical ventilation and weaning is one of the most common procedures carried out in critically ill patients. Appropriate management of these patients is of paramount importance to improve the outcome in terms of both morbidity and mortality. This book offers the physiological and clinical basis required to improve the care delivered to patients undergoing mechanical ventilation.

This book constitutes revised selected papers from the 22nd International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2019, the 33rd Workshop on Logic Programming, WLP 2019, and the 27th Workshop on Functional and (Constraint) Logic Programming, WFLP 2019. The 15 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 24 submissions. The contributions present current research activities in the areas of declarative languages and compilation techniques, in particular for constraint-based, logical and functional languages and their extensions, as well as discuss new approaches and key findings in constraint-solving, knowledge representation, and reasoning techniques.

Within all areas of transportation, solutions for economical and environmentally friendly

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technology are being examined. Fuel consumption, combustion processes, control and limitation of pollutants in the exhaust gas are technological problems, for which guidelines like 98/69/EC and 99/96 determine the processes for the reduction of fuel consumption and exhaust gas emissions. Apart from technological solutions, the consequences of international legislation and their effects on environmental and climate protection in the area of the transportation are discussed.

The International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), established in 1962, is an intergovernmental organization of 13 countries: Albania, Algeria, Egypt, France, Greece, Italy, Lebanon, Malta, Morocco, Portugal, Spain, Tunisia and Turkey. Four institutes (Bari, Italy; Chania, Greece; Montpellier, France; and Zaragoza, Spain) provide postgraduate education at the Master of Science level. CIHEAM promotes research networks on Mediterranean agricultural priorities, supports the organization of specialized education in member countries, holds seminars and workshops bringing together technologists and scientists involved in Mediterranean agriculture and regularly produces diverse publications including the series Options Méditerranéennes. Through these activities, CIHEAM promotes North/South dialogue and international co-operation for agricultural development in the Mediterranean region. Over the past decade, the Mediterranean Agronomic Institute of Zaragoza has developed a number of training and research-supporting activities in the field of agroecology and sustainability of agricultural production systems. Some of these

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activities have been concerned with the rational use of pesticides and more particularly with the implementation of integrated control systems in order to gain in efficacy and decrease both the environmental impact and the negative repercussions for the commercialization of agricultural products.

The use of lubricants began in ancient times and has developed into a major international business through the need to lubricate machines of increasing complexity. The impetus for lubricant development has arisen from need, so lubricating practice has preceded an understanding of the scientific principles. This is not surprising as the scientific basis of the technology is, by nature, highly complex and interdisciplinary. However, we believe that the understanding of lubricant phenomena will continue to be developed at a molecular level to meet future challenges. These challenges will include the control of emissions from internal combustion engines, the reduction of friction and wear in and continuing improvements to lubricant performance and machinery, life-time. More recently, there has been an increased understanding of the chemical aspects of lubrication, which has complemented the knowledge and understanding gained through studies dealing with physics and engineering. This book aims to bring together this chemical information and present it in a practical way. It is written by chemists who are authorities in the various specialisations within the lubricating industry, and is intended to be of interest to chemists who may already be working in the lubricating industry or in academia, and who are seeking a chemist's view of lubrication. It will also be of benefit

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to engineers and technologists familiar with the industry who require a more fundamental understanding of lubricants.

This revised edition of Taylor's classic work on the internal-combustion engine incorporates changes and additions in engine design and control that have been brought on by the world petroleum crisis, the subsequent emphasis on fuel economy, and the legal restraints on air pollution. The fundamentals and the topical organization, however, remain the same. The analytic rather than merely descriptive treatment of actual engine cycles, the exhaustive studies of air capacity, heat flow, friction, and the effects of cylinder size, and the emphasis on application have been preserved. These are the basic qualities that have made Taylor's work indispensable to more than one generation of engineers and designers of internal-combustion engines, as well as to teachers and graduate students in the fields of power, internal-combustion engineering, and general machine design.

This concise volume in the Encyclopaedia of Sports Medicine series, published under the auspices of the International Olympic Committee, provides a dependable source of current knowledge available on tendinopathy and covers both the basic science and clinical aspects of the subject. Despite its high incidence, the precise etiopathogenesis and effective treatment of tendinopathy remain elusive. Tendinopathy in Athletes draws on the expertise of an international and prolific collection of contributors, both clinicians and scientists, who provide new insights into this specialized area. This book: provides

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a comprehensive resource for both clinicians and researchers with information organized logically, with an easy-to-follow progression from the basic scientific findings to clinical applications discusses the full range of treatment modalities, including new molecular and biological approaches, plus surgical and alternative approaches to tendinopath contains "What We Need to Know" sections that suggest future areas of research for young investigators. As tendinopathy remains one of the most common injuries encountered, both in sports and at the workplace, this essential volume is sure to be a source of frequent consultation.

Implantable defibrillators as originally conceived by Michel Mirowski were limited to the detection and automatic termination of ventricular fibrillation. In the original "AID" device, the detection algorithm sought to distinguish sinus rhythm from ventricular fibrillation by identifying the "more sinusoidal waveform of ventricular fibrillation." The therapeutic intervention was elicited only once deadly polymorphic rhythms had developed. It was rapidly learned, however, that ventricular fibrillation is usually preceded by ventricular tachycardia. Mirowski recognized the pivotal importance of developing algorithms based on heart rate. Ventricular tachycardia detection allowed the successful development of interventions for the termination of ventricular tachyarrhythmias before they degenerated into ventricular fibrillation. Current device therapy no longer confines itself to the termination of chaotic rhythms but seeks to prevent them. Diagnostic algorithms moved upward along the chain of events leading to

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catastrophic rhytlulls. Rate smoothing algorithms were developed to prevent postextrasystolic pauses from triggering ventricular and atrial tachyarrhythmias. Beyond the renaissance of ectopy-centered strategies, long-term prevention received increasing attention. Multisite pacing therapies provided by "Arrhythmia Management Devices" were designed to reduce the "arrhythmia burden" and optimize the synergy of cardiac contraction and relaxation. Clinical evidence now suggests that atrial fibrillation prevention by pacing is feasible and that biventricular pacing may be of benefit in selected patients with heart failure. However, these applications of device therapy that generally require ventricular defibrillation backup remain investigational and were not considered in this book.

The main target of this book is to state the latest advancement in ceramic coatings technology in various industrial fields. The book includes topics related to the applications of ceramic coating covers in engineering, including fabrication route (electrophoretic deposition and physical deposition) and applications in turbine parts, internal combustion engine, pigment, foundry, etc.

This title provides a reference on technical and economic factors of combined-cycle applications within the utility and cogeneration markets. Kehlhofer - and his co-authors give the reader tips on system layout, details on controls and automation, and operating instructions.

Psychology and Work is a new edition of the award-winning textbook written for

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introductory Industrial and Organizational (I-O) Psychology classes. This book makes the core topics of I-O Psychology clear, relevant, and accessible to students through its dynamic design. The real-world examples from the perspectives of employees and employers highlight how I-O Psychology is applied to today's workplace. Psychology and Work, Second Edition covers the core areas of I-O Psychology including an overview of the field and its history. The topics covered include up-to-date research methods and statistics; job analysis and criterion measurement; performance appraisal; personnel selection; training and development; work motivation; leadership; job attitudes and emotions, occupational health psychology, safety, and stress; teams; and organizational structure, culture, and change. Throughout the text, an emphasis is placed on essential issues for today's workplace such as diversity and inclusion, the evolving role of big data and analytics, legal issues, and the changing nature of work. Written by dedicated I-O professors with expertise in I-O Psychology and teaching this course, the book and supporting materials provide a range of high-quality pedagogical materials, including interactive features, quizzes, PowerPoint slides, numerous case studies, recommended videos, and an expanded, high-quality test bank.

Harness the Latest Tools and Techniques for Troubleshooting and Repairing Virtually Any Diesel Engine Problem The Fourth Edition of Troubleshooting and Repairing Diesel Engines presents the latest advances in diesel technology. Comprehensive and practical, this revised classic equips you with all of the state-of-the-art tools and

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techniques needed to keep diesel engines running in top condition. Written by master mechanic and bestselling author Paul Dempsey, this hands-on resource covers new engine technology, electronic engine management, biodiesel fuels, and emissions controls. The book also contains cutting-edge information on diagnostics...fuel systems...mechanical and electronic governors...cylinder heads and valves...engine mechanics...turbochargers...electrical basics...starters and generators...cooling systems...exhaust aftertreatment...and more. Packed with over 350 drawings, schematics, and photographs, the updated Troubleshooting and Repairing Diesel Engines features:

- New material on biodiesel and straight vegetable oil fuels
- Intensive reviews of troubleshooting procedures
- New engine repair procedures and tools
- State-of-the-art turbocharger techniques
- A comprehensive new chapter on troubleshooting and repairing electronic engine management systems
- A new chapter on the worldwide drive for greener, more environmentally friendly diesels

Get Everything You Need to Solve Diesel Problems Quickly and Easily • Rudolf Diesel • Diesel Basics • Engine Installation • Fuel Systems • Electronic Engine Management Systems • Cylinder Heads and Valves • Engine Mechanics • Turbochargers • Electrical Fundamentals • Starting and Generating Systems • Cooling Systems • Greener Diesels

Pounder's Marine Diesel Engines and Gas Turbines, Tenth Edition, gives engineering cadets, marine engineers, ship operators and managers insights into currently available engines and auxiliary equipment and trends for the future. This new edition introduces

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new engine models that will be most commonly installed in ships over the next decade, as well as the latest legislation and pollutant emissions procedures. Since publication of the last edition in 2009, a number of emission control areas (ECAs) have been established by the International Maritime Organization (IMO) in which exhaust emissions are subject to even more stringent controls. In addition, there are now rules that affect new ships and their emission of CO₂ measured as a product of cargo carried. Provides the latest emission control technologies, such as SCR and water scrubbers Contains complete updates of legislation and pollutant emission procedures Includes the latest emission control technologies and expands upon remote monitoring and control of engines

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