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Titolo	Alternative Fuels in Ship Power Plants : Application of Alternative Fuels / / by Xinglin Yang, Zongming Yang, Huabing Wen, Viktor Gorbov, Vira Mitienkova, Serhiy Serbin
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Disciplina	623.874
Soggetti	Cogeneration of electric power and heat Fossil fuels Marine engineering Engines Thermodynamics Heat engineering Heat - Transmission Mass transfer Fossil Fuel Marine Engineering Engine Technology Engineering Thermodynamics, Heat and Mass Transfer
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Substantiation of Alternative Fuels Utilization -- Modern State of Using Alternative Fuels in Marine Engineering -- Liquefied Natural Gas as Marine Fuel -- Biodiesel and its Blends as Marine Fuel -- Synthetic Coal-Based Fuels and Their Combustion.
Sommario/riassunto	This book describes the feasibility and status of the use of alternative fuels in marine engineering, as well as the application of liquefied natural gas, biodiesel and their blends as marine fuels, and the combustion of synthetic coal-based fuels. Each chapter in the book ends with a summary, which gives the reader a quick and clear understanding of the main contents of the chapter. The book gives a

lot of advice on the selection of equipment and parameters, fuel reserves and preparation for scholars related to alternative fuels in ships, and points them in the way. It contains lots of illustrations and tables and explains it in the form of chart comparison. The authors have developed mathematical models and methods for calculating the parameters of fuel systems for biodiesel fuels and liquefied natural gas. Recommendations for choosing the rational parameters of these systems are given, as are schematic solutions of the fuel systems, recommendations for selecting equipment, storing, and preparing the fuels. Application of the materials described in the book provides the SPP designers with a reliable tool for choosing rational characteristics of the fuel systems operating on alternative fuels and improving the efficiency of their application on ships.
