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# Alternative Fuels in Ship Power Plants

## Application of Alternative Fuels

- Introduces systematically several kinds of alternative fuels in marine power plant
- Describes the application of the material which provides a reliable tool for SPP designers to choose the rationality of alternative fuels
- Develops systematically the mathematical model and method for calculating the parameters of biodiesel and liquefied natural gas fuel system

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.

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