

Hydrogen as fuel in combustion engines

The course is designed to provide students with know-how and knowledge in the fundamentals of hydrogen as combustion engine fuel, of hydrogen-driven engines and gas turbines, and of the fuel system for hydrogen in marine and on-shore applications.

Course contents

1. Hydrogen as combustion engine fuel
2. Hydrogen-driven engines
3. Fuel system for hydrogen-driven power generation, incl. safety

1. Hydrogen properties

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- Introduction and contents
- Physical and chemical properties of hydrogen
- Production of hydrogen
- Combustibility properties
- Energy content of hydrogen
- Material compatibility
- Environmental aspects
- References