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Marine

Diesel

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**The use of
renewable energy is**

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**an effective solution
for the prevention of
global warming. On
the other hand,
environmental
plasmas are one of
powerful means to
solve global
environmental
problems on
nitrogen oxides,
(NO_x), sulfur oxides
(SO_x), particulate
matter (PM), volatile**

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organic compounds (VOC), and carbon dioxides (CO₂) in the atmosphere. By combining both technologies, we can develop an extremely effective environmental improvement technology. Based on this background, a Special Issue of the journal **Energies**

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on plasma processes for renewable energy technologies is planned. On the issue, we focus on environment plasma technologies that can effectively utilize renewable electric energy sources, such as photovoltaic power generation, biofuel

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power generation,
wind turbine power
generation, etc.

However, any latest
research results on
plasma
environmental
improvement
processes are
welcome for
submission. We are
looking, among
others, for papers
on the following

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**technical subjects
in which either
plasma can use
renewable energy
sources or can be
used for renewable
energy**

technologies: .

Plasma

decomposition

technology of

harmful gases, such

as the plasma

denitrification

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**method; · Plasma
removal technology
of harmful particles,
such as
electrostatic
precipitation; ·
Plasma
decomposition
technology of
harmful substances
in liquid, such as
gas–liquid
interfacial plasma; ·
Plasma-enhanced**

flow induction and heat transfer enhancement technologies, such as ionic wind device and plasma actuator; · Plasma-enhanced combustion and fuel reforming; · Other environment plasma technologies.

**New Technologies
for Emission**

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**Control in Marine
Diesel Engines**

**provides a unique
overview on marine
diesel engines and
aftertreatment
technologies that is
based on the
authors' extensive
experience in
research and
development of
emission control
systems, especially**

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**plasma
aftertreatment
systems. The book
covers new and
updated
technologies, such
as combustion
improvement and
after treatment,
SCR, the NOx
reduction method,
Ox scrubber, DPF,
Electrostatic
precipitator, Plasma**

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**PM decomposition,
Plasma NOx
reduction, and the
Exhaust gas
recirculation
method. This
comprehensive
resource is ideal for
marine engineers,
engine
manufacturers and
consultants dealing
with the
development and**

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**implementation of
aftertreatment
systems in marine
engines. Includes
recent advances
and future trends of
marine engines
Discusses new and
innovative emission
technologies for
marine diesel
engines and their
regulations Covers
aftertreatment**

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technologies that
are not widely
applied, such as
catalysts, SCR, DPF
and plasmas

**New Technologies
for Emission
Control in Marine
Diesel Engines
Journal of Abstracts
of the British Ship
Research
Association**

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**The Motor Ship
Prosperous Nation
Building Through
Shipbuilding**

This book contains a collection of peer-review scientific papers about marine engines' performance and emissions. These papers were

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carefully selected
for the "Marine
Engines

Performance and
Emissions" Special
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Journal of Marine
Science and
Engineering.

Recent
advancements in
engine technology

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have allowed designers to reduce emissions and improve performance. Nevertheless, further efforts are needed to comply with the ever increased emission legislations. This

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book was
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conceived for
people interested
in marine engines.

This information
concerning recent
developments may
be helpful to
academics,
researchers, and
professionals
engaged in the

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field of marine
engineering.

Pounder's Marine
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and Gas Turbines,
Tenth Edition,
gives engineering
cadets, marine
engineers, ship
operators and
managers insights
into currently

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available engines and auxiliary equipment and trends for the future. This new edition introduces new engine models that will be most commonly installed in ships over the next decade, as well as

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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

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Maritime

Organization (IMO)

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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

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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

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Includes the latest
emission control
technologies and
expands upon
remote monitoring
and control of
engines

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with Indexes

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Fairplay

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Shipping Weekly

Marine Week

Pounder's Marine

Diesel Engines

and Gas Turbines

Technical plasmas

have a wide range

of industrial

applications. The

Encyclopedia of

Plasma Technology

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covers all aspects of plasma technology from the fundamentals to a range of applications across a large number of industries and disciplines. Topics covered include nanotechnology, solar cell technology,

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biomedical and clinical applications, electronic materials, sustainability, and clean technologies. The book bridges materials science, industrial chemistry, physics, and engineering, making it a must have for researchers in industry and

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academia, as well
as those working on
application-oriented
plasma

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appearance in 1950,

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engine design and the influence of new technology and economic needs on the marine diesel engine. This new edition has been completely re-written and re-structured, while retaining the directness of approach and

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attention to
essential detail that
characterised its
predecessors.

There are new
sections covering
principles and
theory, and engine
selection, and
important
developments such
as the use of high
speed diesel

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engines (for
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craft) are treated in
full. In addition,

numerous

illustrations of all the

listed types of

engines appear in

their relevant

chapters.

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Second section

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first

appearance in

1950,

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Engines has

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engineers,

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the

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of Competency

examinations

and the marine

engineering

industry

throughout the

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world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. Now in

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its ninth
edition,
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retains the
directness of
approach and
attention to
essential
detail that
characterized
its
predecessors.

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There are new
chapters on
monitoring
control and

HiMSEN engines
as well as
information on
developments
in electronic-
controlled
fuel
injection. It

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is fully
updated to
cover new
legislation
including that
on emissions
and provides
details on
enhancing
overall
efficiency and
cutting CO2

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emissions.

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experience as
a seagoing
engineer with
the British
India Steam
Navigation
Company, Doug
Woodyard held
editorial
positions with

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the

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Institution of
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Engineers and
the Institute
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subsequently
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Motor Ship
journal for
eight years

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before
becoming a
freelance
editor
specializing
in shipping,
shipbuilding
and marine
engineering.
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currently
technical

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contributing
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Speed at Sea,
Shipping World
and
Shipbuilder
and a

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engineers to
understand the
latest changes
to marine
diesel**

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they require *

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chapters focus

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systems and

HiMSEN

engines. *

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illustrations
and figures to
aid**

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understanding
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and help
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quickly
identify what
they need to
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elucidates the
potential of
the
shipbuilding

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industry for
initiating
economic
development,
which
eventually
leads to
enhancing the
prosperity of
a nation. This
is explained
by

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intrinsically
linking the
macroeconomics
of the nation
with the
microeconomics
of the
shipbuilding
industry. The
economic and
commercial
spin offs by

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the shipyard
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to the various
industries

have been
analysed and
calculated. An
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been made to
trace the
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past of Indian
shipbuilding

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from the
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Bronze Age,
through the
ancient
kingdom
period, to the
present times,
in the
backdrop of
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maritime
history. The

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operational
requirement of
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well as
defence
shipbuilding
has been
analysed to
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available
potential
market space

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to formulate
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pursuit of
this, the book
investigates
the global

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period to
date; the
success
stories of
leading
shipbuilding

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nations

viz. UK, USA,
Japan, Korea

and China have
been analysed.

The benefits
accrued by
these nations
through
shipbuilding
have been
summarised.

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The strategies
adopted by
each of these
countries to
reach the
pinnacle in
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have been
examined and
the salient
features
relevant for

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India have
been
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measurement in
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examined and
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have been

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along with
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technique, as
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tool to

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as well as
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ways of
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shipbuilding,
by way of cost-
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techniques,
along with
some Indian
case studies
have been
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the book.

Keeping the
'Indian

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Agenda
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**vision
document in
the backdrop,
a strategic
appreciation
of the Indian
shipbuilding
industry has
been**

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undertaken
using the
SWOT, the
Matrix and the
Scenario
analyses.
Based on these
analyses,
strategies
have been
formulated for
all the

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stakeholders
who can
influence the
Indian
shipbuilding
industry. The
book then
identifies the
need for an
alchemist
leader, who
can harmonise

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all the
stakeholders
and thereby
propel the
Indian
shipbuilding
industry
towards
achieving the
long-term goal
of creating a
prosperous

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examinations and the marine engineering industry throughout the world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. This eighth edition retains the directness

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of approach and attention to essential detail that characterized its predecessors. There are new chapters on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation.

Important developments such as

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the latest diesel-
electric LNG carriers
that will soon be in
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experience as a
seagoing engineer with
the British India Steam
Navigation Company,
Doug Woodyard held
editorial positions with
the Institution of
Mechanical Engineers
and the Institute of

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Marine Engineers. He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping, shipbuilding and marine engineering. He is currently technical editor of Seatrade, a contributing editor to

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of the new edition enables readers to access the information they require * Brand new chapters focus on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation * High quality, clearly labelled illustrations and figures

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abstracts of articles
and papers of interest
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owners and marine
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World Fishing

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on
developments in
diesel engines.
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discusses theory
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principles.

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at engine
selection and
performance,
including direct
and indirect
drive, maximum
rating, exhaust
temperatures,
derating, mean
effective
pressures, fuel
coefficient,

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propeller
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performance,
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and power build-

up. The book
also examines

pressure

charging.

Matching of
turboblowers,

blower surge,

turbocharger

types, constant

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pressure
method, impulse

turbocharging

method, and

scavenging are

discussed. The

text describes

fuel injection,

Sulzer, MAN,

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and Wain

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selection also considers Mitsubishi, GMT, and Doxford engines. The text then focuses on fuels and fuel chemistry; operation, monitoring, and maintenance;

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significant
operating
problems; and
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and alignment,
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measurements,
crankcase
explosions, main
engine

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crankshaft defects, bearings, fatigue, and overhauling and maintenance are discussed. The book is a good source of information for readers wanting to study diesel

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