

Online Library Solution Manual
Of Marine Hydrodynamics

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Ship Resistance and Propulsion

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provides a comprehensive approach to evaluating ship resistance and propulsion. Informed by applied research, including experimental and CFD techniques, this book provides guidance for the practical estimation of ship propulsive

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power for a range of ship types. Published standard series data for hull resistance and propeller performance enables practitioners to make ship power predictions based on material and data contained within the book. Fully worked examples

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illustrate applications of the data and powering methodologies; these include cargo and container ships, tankers and bulk carriers, ferries, warships, patrol craft, work boats, planing craft and yachts. The book is aimed at a broad readership including

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practising naval architects and marine engineers, seagoing officers, small craft designers, undergraduate and postgraduate students. Also useful for those involved in transportation, transport efficiency and ecologistics who need to carry

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**out reliable estimates of ship
power requirements.**

**Classical dynamics is one of the
cornerstones of advanced
education in physics and applied
mathematics, with applications
across engineering, chemistry
and biology. In this book, the**

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author uses a concise and pedagogical style to cover all the topics necessary for a graduate-level course in dynamics based on Hamiltonian methods. Readers are introduced to the impressive advances in the field during the second half of the

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twentieth-century, including KAM theory and deterministic chaos. Essential to these developments are some exciting ideas from modern mathematics, which are introduced carefully and selectively. Core concepts and techniques are discussed,

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together with numerous concrete examples to illustrate key principles. A special feature of the book is the use of computer software to investigate complex dynamical systems, both analytically and numerically. This text is ideal for graduate

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students and advanced undergraduates who are already familiar with the Newtonian and Lagrangian treatments of classical mechanics. The book is well suited to a one-semester course, but is easily adapted to a more concentrated format of one-

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quarter or a trimester. A solutions manual and introduction to Mathematica® are available online at www.cambridge.org/Lowenstein. These proceedings represent the most recent and complete state of the art review of three-

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dimensional models of the modern generation for the study of marine hydrodynamics and management of the marine system. The book is well illustrated by application to well-documented case studies. Technical guidance manual for

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**performing waste load
allocations book III estuariesPart
1 estuaries and waste load
allocation models.**

**Hydrodynamics and Water
Quality**

**The Three Gorges Reservoir
Modeling Rivers, Lakes, and**

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Estuaries

**Hydrodynamics and Transport for
Water Quality Modeling
In Nautical History and North
American Coastal Flooding,
1635-1976**

The International Conference on
Hydrodynamics is an increasingly

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important event at which academics, researchers and practitioners can exchange new ideas and their research findings. This volume contains papers from the 2004 conference covering a wide range of subjects within hydrodynamics, including

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traditional engineering, architectural and mechanical issues as well as significant new technologies and methodologies such as bio-fluid mechanics and computational fluid mechanics. This book is intended as an introductory textbook for graduate

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students and as a reference book for engineers and scientists working in the field of coastal engineering. As such it gives a description of the theories for wave and nearshore hydrodynamics. It is meant to de-mystify the topics and hence starts at a fairly basic level. It

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requires knowledge of fluid mechanics equivalent to a first year graduate level. At the end of each topic, an attempt is made to give an overview of the present stage of the scientific development in that area with numerous references for further studies.

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The primary reference for the modeling of hydrodynamics and water quality in rivers, lake, estuaries, coastal waters, and wetlands This comprehensive text perfectly illustrates the principles, basic processes, mathematical descriptions, case studies, and

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practical applications associated with surface waters. It focuses on solving practical problems in rivers, lakes, estuaries, coastal waters, and wetlands. Most of the theories and technical approaches presented within have been implemented in mathematical models and applied to

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solve practical problems.

Throughout the book, case studies are presented to demonstrate how the basic theories and technical approaches are implemented into models, and how these models are applied to solve practical environmental/water resources

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problems. This new edition of Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries has been updated with more than 40% new information. It features several new chapters, including one devoted to shallow water processes in wetlands as well

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as another focused on extreme value theory and environmental risk analysis. It is also supplemented with a new website that provides files needed for sample applications, such as source codes, executable codes, input files, output files, model manuals,

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reports, technical notes, and utility programs. This new edition of the book: Includes more than 120 new/updated figures and 450 references Covers state-of-the-art hydrodynamics, sediment transport, toxics fate and transport, and water quality in surface waters

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Provides essential and updated information on mathematical models Focuses on how to solve practical problems in surface waters—presenting basic theories and technical approaches so that mathematical models can be understood and applied to simulate

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processes in surface waters Hailed as "a great addition to any university library" by the Journal of the American Water Resources Association (July 2009), Hydrodynamics and Water Quality, Second Edition is an essential reference for practicing engineers,

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scientists, and water resource managers worldwide.

U.S. Government Research Reports
Coastal Extension of CMEMS
Products. Models, Data and
Applications

Three-Dimensional Models of
Marine and Estuarine Dynamics

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Renewable Energies Offshore
Hydrodynamics

Scientific and Technical Books and
Serials in Print

This book offers a comprehensive
review of collision avoidance
techniques and safe trajectory
planning for manned and unmanned

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ships, together with extensive information on how to develop and implement algorithms for applications in real-world settings. It describes the most relevant decision-support systems and guidance systems used in the control of marine craft, giving a special emphasis to autonomous

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vehicles, but also covering manned ones. Thanks to its good balance of theory and practice, and the inclusion of basic explanations of all essential concepts, this book fills an important gap in the literature of marine navigation, providing not only researchers and practitioners with a

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timely reference guide to safe trajectory planning, but also supporting students and newcomers to the field.

The knowledge of the characteristics of the fluids and their ability to transport substances and physical properties is relevant for us.

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However, the quantification of the movements of fluids is a complex task, and when considering natural flows, occurring in large scales (rivers, lakes, oceans), this complexity is evidenced. This book presents conclusions about different aspects of flows in natural water

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bodies, such as the evolution of plumes, the transport of sediments, air-water mixtures, among others. It contains thirteen chapters, organized in four sections: Tidal and Wave Dynamics: Rivers, Lakes and Reservoirs, Tidal and Wave Dynamics: Seas and Oceans, Tidal

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and Wave Dynamics: Estuaries and Bays, and Multiphase Phenomena: Air-Water Flows and Sediments. The chapters present conceptual arguments, experimental and numerical results, showing practical applications of the methods and tools of Hydrodynamics.

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Hydrodynamics and Transport for Water Quality Modeling presents a complete overview of current methods used to describe or predict transport in aquatic systems, with special emphasis on water quality modeling. The book features detailed descriptions of each method,

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supported by sample applications and case studies drawn from the authors' years of experience in the field. Each chapter examines a variety of modeling approaches, from simple to complex. This unique text/reference offers a wealth of information previously unavailable from a single

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source. The book begins with an overview of basic principles, and an introduction to the measurement and analysis of flow. The following section focuses on rivers and streams, including model complexity and data requirements, methods for estimating mixing, hydrologic routing methods,

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and unsteady flow modeling. The third section considers lakes and reservoirs, and discusses stratification and temperature modeling, mixing methods, reservoir routing and water balances, and dynamic modeling using one-, two-, and three-dimensional models. The

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book concludes with a section on estuaries, containing topics such as origins and classification, tides, mixing methods, tidally averaged estuary models, and dynamic modeling. Over 250 figures support the text. This is a valuable guide for students and practicing modelers

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who do not have extensive
backgrounds in fluid dynamics.

Proceedings of the Second
International Conference on
Hydrodynamics, Hong Kong, 16-19
December, 1996

Advances in Renewable Energies
Offshore

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Cumulative index

Whitaker's Cumulative Book List

Safe Trajectory Planning for Maritime
Surface Ships

Essentials of Hamiltonian Dynamics

Advances in Renewable

Energies Offshore is a collection

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of the papers presented at the 3rd International Conference on Renewable Energies Offshore (RENEW 2018) held in Lisbon, Portugal, on 8-10 October 2018. The 104 contributions were written by a diverse international

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group of authors and have been reviewed by an International Scientific Committee. The book is organized in the following main subject areas: - Modelling tidal currents - Modelling waves - Tidal energy devices (design,

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applications and experiments) -
Tidal energy arrays - Wave
energy devices (point absorber,
multibody, applications, control,
experiments, CFD, coastal
OWC, OWC and turbines) -
Wave energy arrays - Wind

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energy devices - Wind energy
arrays - Maintenance and
reliability - Combined platforms -
Mooring, and - Flexible
materials Advances in
Renewable Energies Offshore
collects recent developments in

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these fields, and will be of interest to academics and professionals involved in the above mentioned areas.

This book unifies the most important geometries used to develop analytical solutions for

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hydrodynamic boundary value problems.

This book discusses the subject of wave/current flow around a cylinder, the forces induced on the cylinder by the flow, and the vibration pattern of slender

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structures in a marine environment. The primary aim of the book is to describe the flow pattern and the resulting load which develops when waves or current meet a cylinder. Special attention is paid to circular

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cylinder. The development in the forces is related to the various flow patterns and is discussed in detail. Regular as well as irregular waves are considered, and special cases like wall proximities (pipelines) are also

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investigated.

Hydraulic Research in the United
States and Canada

Practical Estimation of
Propulsive Power

Principles, Data, Design and
Applications

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Trends and Challenges in
Maritime Energy Management
Monthly Catalog of United States
Government Publications
AETA 2015: Recent Advances in
Electrical Engineering and
Related Sciences

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This proceeding book consists of 10 topical areas of selected papers like: telecommunication, power systems, robotics, control system, renewable energy, power electronics, computer science and more. All selected papers represent interesting ideas

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and state of the art overview.

*Readers will find interesting papers
of those areas about design and
implement of dynamic positioning
control system for USV, scheduling
problems, motor control,
backtracking search algorithm for*

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distribution network and others. All selected papers represent interesting ideas and state of art overview. The proceeding book will also be a resource and material for practitioners who want to apply discussed problems to solve real-life

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problems in their challenging applications. It is also devoted to the studies of common and related subjects in intensive research fields of modern electric, electronic and related technologies. For these reasons, we believe that this

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*proceeding book will be useful for
scientists and engineers working in
the above-mentioned fields of
research applications.*

*This book is the culmination of the
NATO Advanced Study Institute on
The Mathematics of Models for*

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Climatology and Environment which was held at Puerto de la Cruz, Tenerife, Spain during 11-21 January 1995. One of the main goals of the ASI was to establish a bridge between mathematical modellers on the one hand and

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physical oceanographers and climatologists on the other. The book is divided into four parts containing a total of 16 chapters: Parts I, II and III are devoted to general models and Part IV to models related to some local

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problems. Most of the mathematical models here considered involve systems of nonlinear partial differential equations. The mathematical treatment cover a large list of subjects: existence and uniqueness for well-posed problems, large time

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*behaviour, stability,
bifurcation, diagrams of equilibria,
conditions for the occurrence of
interfaces or free boundaries,
numerical algorithms and its
implementation, controllability of
the problems, etc. I thank Jacques-*

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Louis Lions and Cornelius Johannes van Duijn for their guidance and collaboration as co-directors of the AS!. I also thank J.F.Padial and G. Diaz for their help in the planning and conduct of the ASI as well as in the preparation of this book.

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Over 220,000 entries representing some 56,000 Library of Congress subject headings. Covers all disciplines of science and technology, e.g., engineering, agriculture, and domestic arts. Also contains at least 5000 titles

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published before 1876. Has many applications in libraries, information centers, and other organizations concerned with scientific and technological literature. Subject index contains main listing of entries. Each entry

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*gives cataloging as prepared by the
Library of Congress. Author/title
indexes.*

Technical Abstract Bulletin

Marine Technology and SNAME

News

Program review proceedings of

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*environmental effects of energy
related activities on
marine/estuarine ecosystems*

*Hydrodynamics VI: Theory and
Applications*

*U.S. Environmental Protection
Agency Library System Book*

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Catalog Holdings as of July 1973

Ship Resistance and Propulsion

"Distribution and Transformation
of Nutrients and Eutrophication
in Large-scale Lakes and
Reservoirs: The Three Gorges
Reservoir" presents key findings

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on early eutrophication in large-scale lakes and reservoirs, providing readers with an overview of lake management problems and the tools that can be applied to solve them. The broad spectrum of available tools

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is presented in detail, including environmental technological methods, ecotechnological methods and the application of models to determine the best management strategy. The book is intended for environmental

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engineers and researchers in the fields of environmental science and ecological chemistry.

Professor Zhenyao Shen,
Professor Junfeng Niu and
Associate Professor Ying Wang
work at the School of

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Environment, Beijing Normal University, China. Dr. Hongyuan Wang works at Chinese Academy of Agricultural Sciences, China. Dr. Xin Zhao works at Changjiang River Scientific Research Institute,

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China.

This book is a printed edition of
the Special Issue "Marine
Propulsors" that was published in
JMSE

Marine Rudders, Hydrofoils and
Control Surfaces

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Proceedings of the 3rd
International Conference on
Renewable Energies Offshore
(RENEW 2018), October 8-10,
2018, Lisbon, Portugal
Introduction to Nearshore
Hydrodynamics

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Natural Water Bodies

Jerusalem Conference on

Information Technology

The Strategic Role of Perigean

Spring Tides

Pure and Applied Science

Books, 1876-1982

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This book provides an overview of contemporary trends and challenges in maritime energy management (MEM). Coordinated action is necessary to achieve a

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low carbon and energy-efficient maritime future, and MEM is the prevailing framework aimed at reducing greenhouse gas emissions resulting from maritime

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industry activities. The book familiarizes readers with the status quo in the field, and paves the way for finding solutions to perceived challenges.

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The 34 contributions cover six important aspects: regulatory framework; energy-efficient ship design; energy efficient ship and port operation;

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economic and social dimensions; alternative fuels and wind-assisted ship propulsion; and marine renewable energy. This pioneering work is intended for researchers

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and academics as well as practitioners and policymakers involved in this important field.

Now in its fifth edition, *Hydraulics in Civil and Environmental*

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Engineering combines
thorough coverage of the
basic principles of
civil engineering
hydraulics with wide-
ranging treatment of
practical, real-world

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applications. This classic text is carefully structured into two parts to address principles before moving on to more advanced topics. The

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first part focuses on fundamentals, including hydrostatics, hydrodynamics, pipe and open channel flow, wave theory, physical modeling, hydrology, and

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sediment transport. The second part illustrates the engineering applications of these fundamental principles to pipeline system design; hydraulic

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structures; and river, canal, and coastal engineering—including up-to-date environmental implications. A chapter on computational hydraulics demonstrates

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the application of
computational simulation
techniques to modern
design in a variety of
contexts. What's New in
This Edition Substantive
revisions of the

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chapters on hydraulic
machines, flood
hydrology, and
computational modeling
New material added to
the chapters on
hydrostatics, principles

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of fluid flow, behavior
of real fluids, open
channel flow, pressure
surge in pipelines, wave
theory, sediment
transport, river
engineering, and coastal

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engineering The latest
recommendations on
climate change
predictions, impacts,
and adaptation measures
Updated references
Hydraulics in Civil and

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Environmental
Engineering, Fifth
Edition is an essential
resource for students
and practitioners of
civil, environmental,
and public health

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engineering and
associated disciplines.
It is comprehensive,
fully illustrated, and
contains many worked
examples. Spreadsheets
and useful links to

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other web pages are available on an accompanying website, and a solutions manual is available to lecturers.

Renewable Energies

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Offshore includes the papers presented in the 1st International Conference on Renewable Energies Offshore (RENEW2014), held in Lisbon, 24-26 November

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2014. The conference is a consequence of the importance of the offshore renewable energies worldwide and an opportunity to contribute to the

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exchange of information
on the dev

Marine Rudders,
Hydrofoils and Control
Surfaces

EPA-600/7

The Strategic Role of

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Perigean Spring Tides in
Nautical History and
North American Coastal
Flooding, 1635-1976
A Classified List of
Publications...together
with an Index to Authors

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and Titles

Shock and Vibration,

Data Analysis and

Applications

Scientific and Technical

Aerospace Reports