NTIS #PB96-129119

SSC-385 A

Hydrodynamic Impact on Displacement Ship Hulls

An Assessment of the State of the Art

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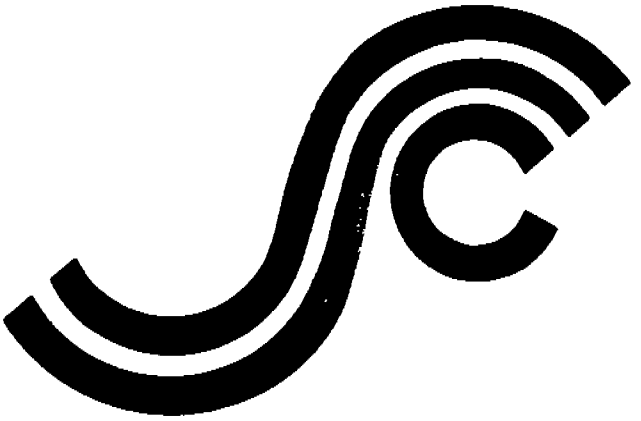

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1995

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Address Correspondence to:

Executive Director
Ship Structure Committee
U.S. Coast Guard (G-MMS/SSC)
2100 Second Street, S.W.
Washington, D.C. 20593-0001
Ph:(202) 267-0003
Fax:(202) 267-4816

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SR-1342

2 January 1996

HYDRODYNAMIC IMPACT ON DISPLACEMENT SHIP HULLS

The ability of the naval architect to optimize the structural design of a ship is limited by both our understanding of, and our ability to predict hydrodynamic loads. In addition to having to account for the random nature of wave induced loads, transient loadings such as slamming, wave slap and frontal impacts must also be addressed. Failure to account for these impulsive loads and how best to combine these loads with ever present slow varying wave induced loads can result in, at best, reduced ship operational time and, at worst, catastrophic failure.

In order to address these concerns, a critical review of the state of the art in predicting hydrodynamic impact forces has been completed. This report identifies numerous theories of hydrodynamic impact loading that have been developed over the years by many researchers. These theories are evaluated to identify which are most applicable for use in design with example calculations presented. Recommendations for future research are given.

J. C. CARD
Rear Admiral, U.S. Coast Guard
Chairman, Ship Structure Committee

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16. Abstract

This bibliography was formulated during the development of the Ship Structure Committee report: Hydrodynamic Impact Loading on Displacement Ship Hulls, An Assessment of the State of the Art, by Dr. John C. Daidola and Dr. Victor Mishkevich.

The report provides a comprehensive assessment of the state of the art of hydrodynamic impact loading on displacement ship hulls. The subject is considered in light of the three distinct phenomena of slamming, wave slap, and frontal impact. Factors leading to hydrodynamic impact are defined in terms of environmental and vessel characteristics. The theories of impact are reviewed in sub-categories of two and three dimensional analytical hydrodynamic models, hydroelastic models, seakeeping theory, model tests and full scale data. The techniques and procedures identified which lend themselves to analysis and potential design application are identified and described, the characteristics of each summarized, and example calculations relating the techniques and procedures presented. The report concludes with recommendations for future research.

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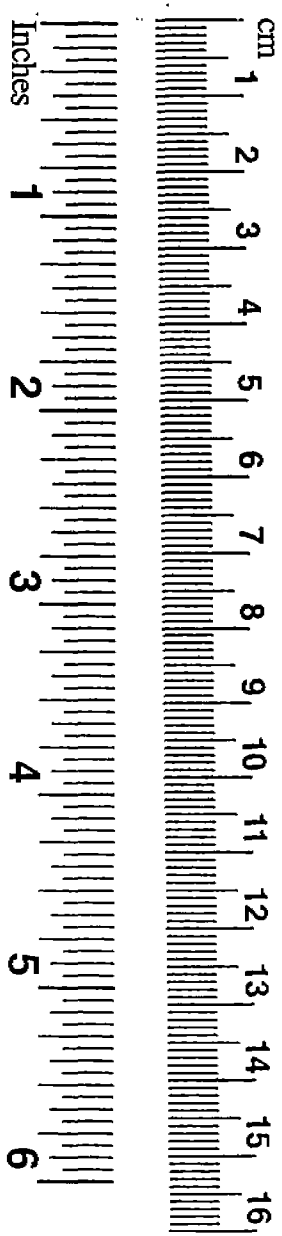
NIST United States Department of Commerce
Technology Administration
National Institute of Standards and Technology
Metric Program, Gaithersburg, MD 20899

METRIC CONVERSION CARD

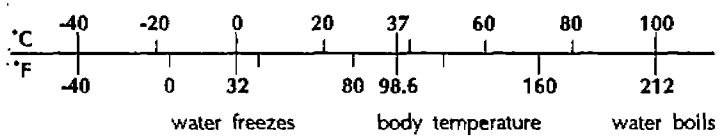
Approximate Conversions to Metric Measures

Symbol	*When You Know*	*Multiply by*	*To Find*	*Symbol*
	LENGTH			
in	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
	AREA			
in^2	square inches	6.5	square centimeters	cm^2
ft^2	square feet	0.09	square meters	m^2
yd^2	square yards	0.8	square meters	m^2
mi^2	square miles	2.6	square kilometers	km^2
	acres	0.4	hectares	ha
	MASS (weight)			
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	metric ton	t
	VOLUME			
tsp	teaspoons	5	milliliters	mL
Tbsp	tablespoons	15	milliliters	mL
in^3	cubic inches	16	milliliters	mL
fl oz	fluid ounces	30	milliliters	mL
c	cups	0.24	liters	L
pt	pints	0.47	liters	L
qt	quarts	0.95	liters	L
gal	gallons	3.8	liters	L
ft^3	cubic feet	0.03	cubic meters	m^3
yd^3	cubic yards	0.76	cubic meters	m^3
	TEMPERATURE (exact)			
°F	degrees Fahrenheit	subtract 32, multiply by 5/9	degrees Celsius	°C



Approximate Conversions from Metric Measures

Symbol	*When You Know*	*Multiply by*	*To Find*	*Symbol*
	LENGTH			
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
	AREA			
cm^2	square centimeters	0.16	square inches	in^2
m^2	square meters	1.2	square yards	yd^2
km^2	square kilometers	0.4	square miles	mi^2
ha	hectares (10,000 m^2)	2.5	acres	
	MASS (weight)			
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	metric ton (1,000 kg)	1.1	short tons	
	VOLUME			
mL	milliliters	0.03	fluid ounces	fl oz
mL	milliliters	0.06	cubic inches	in^3
L	liters	2.1	pints	pt
L	liters	1.06	quarts	qt
L	liters	0.26	gallons	gal
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1.3	cubic yards	yd^3
	TEMPERATURE (exact)			
°C	degrees Celsius	multiply by 9/5, add 32	degrees Fahrenheit	°F



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INTRODUCTION

This Bibliography was formulated during the development of the Ship Structure Committee report: Hydrodynamic Impact Loading on Displacement Ship Hulls, An Assessment of the State of the Art, by John C. Daidola and Victor Mishkevich.

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The Bibliography is arranged in alphabetical order by author. Three key identifiers are provided indicating the specialization of the reference including type of hydrodynamic impact, format of approach and nature of the data. These have been provided only for those publications actually reviewed in the conduct of the study of the aforementioned report.

A list of abbreviations utilized in the Bibliography is provided as well.

ABBREVIATIONS

AIAA	American Institute of Aeronautics & Astronautics
AINA	Arctic Institute of North America
AMM	Journal of Applied Mathematics and Mechanics
ANL	Argonne National Laboratory, Argonne, Illinois
API	American Petroleum Institute
APL/JHU	Applied Physics Laboratory/Johns Hopkins University
ARDE	Armament Research and Development Establishment
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASNE	American Society of Naval Engineers
ATMA	Asssociation Technique Maritime et Aeronautique, Paris
BARC	British Aeronautical Research Council
BCF	Bureau of Commercial Fisheries
BISI	British Iron and Steel Industry Translation
BMT	British Maritime Technology
BSRA	British Ship Research Association
CAHI	Central Aero-Hydrodynamic Institute, Moscow
CALTCH/CIT	California Institute of Technology
CASO	Council of American Steamship Operators
COE	Corps of Engineers, U.S. Army
COSATI	Committee on Scientific and Technical Information
CTS	Consolidated Translation Survey
DDC	Defense Documentation Center
DIA	Defense Intelligence Agency
DOD	Department of Defense
DOE	Department of Energy
DON	Department of Navy
DOT	Department of Transportation
DTMB/DTRC	David Taylor Model Basin/David Taylor Research Center
DTSRDC	David Taylor Naval Ship Research and Development Center
EI	Engineering Index
EPA	Environmental Protection Agency
ESL	Engineering Societies Library
GSU	The Gorky State University
IAeSc	Institute of Aeronautical Sciences, New York
IESS	Transactions of the Institute of Engineers and Shipbuilders in Scotland
IME	Institute of Mechanical Engineers
ISOSC	International Ship and Offshore Structures Congress
ISP	International Shipbuilding Progress
ISSC	Proceedings of International Ship Structures Congress
JAP	Journal of Applies Physics
JAS	Journal of Aero/Space Sciences
JFI	Journal of the Franklin Institute

ABBREVIATIONS (Cont'd)

JPRS	Joint Publications Research Service
JSR	Journal of Ship Research, SNAME
JSTG	Jahrbuch der Schiffbautechnischen Gesellschaft, Hamburg
JZK	Journal of Zosen Kyokai (The Society of Naval Architects of Japan)
KCSRI	The Krylov Central Scientific Research Institute
KhSU	The Kharkov State University
KSS	The Krylov Scientific Society
L	Leningrad
MARAD	Maritime Administration Research and Development
MarAd	Maritime Administration, DOT
MFG	Mechanics of Fluid and Gas Journal
MIC	Maritime Information Committee - National Research Service
MIT	Massachusetts Institute of Technology
MR&S	M. Rosenblatt & Son, Inc., New York, NY
MRIS	Maritime Research Information Service
MSU	The Moskow State University
MTIF	Maritime Technical Information Facility
MTRB	Maritime Transportation Research Board
NACA	National Advisory Committee for Aeronautics, Now NASA
NAE	National Academy of Engineering
NAS	National Academy of Sciences
NASA	National Aeronautics and Space Administration, formerly NACA
NBS	National Bureau of Standards
NECIES	Trans of the Northeast Coast Inst. of Engrs. and Shipbuilders
NIC	Naval Intelligence Command Headquarters
NMI	National Maritime Institute
NMRC	National Maritime Research Center
NOAA	National Oceanic and Atmospheric Administration
NODC	Navy Oceanographic Data Center
NOIC	Navy Oceanographic Instrumentation Center
NOO	Naval Oceanographic Office
NOTS	U.S. Naval Ordnance Test Station, China Lake, CA
NRL	Naval Research Laboratory
NSI	The Nikolaev Shipbuilding Institute
NSMB	Netherlands Ship Model Basin
NSRDC	Naval Ship Research and Development Center
NSSC	Naval Ship Systems Command
NTIC	National Technical Information Center
NTIS	National Technical Information Service
PMM	Applied Mathematics and Mechanics (U.S.S.R.)
RINA	Royal Institute of Naval Architects
SCA	Shipbuilders Council of America
SITDL/ETT	Stevens Institute of Technology, Davidson Laboratory, Hoboken, NJ
SNAJ	Society of Naval Architects of Japan

ABBREVIATIONS (Cont'd)

SNAME	Society of Naval Architects and Marine Engineers
SSC	Ship Structures Committee, USCG
SSIE	Smithsonian Science Information Exchange
SWRI	South West Research Institute, San Antonio, TX
TRIS	Transportation Research Information Service, NAS
UCBER	University of California, Berkeley
UCLLL	University of California, Lawrence Livermore Laboratory
UOFM	University of Michigan, Ann Arbor
USCG	United States Coast Guard
USCGA	United States Coast Guard Academy
USCGRD	United States Coast Guard Research and Development
USNASC	United States Naval Air Systems Command
WEBB/WINA	Webb Institute of Naval Architecture, Glen Cove, NY
WJSNA	West Japan Society of Naval Architects
ZAMM	Zeitschrift fur Angewandte Mathematik und Mechanik

SPECIALIZATION IDENTIFIER CODES

Identifier #1: Type of Hydrodynamic Impact

BS	=	Bottom Slamming
FI	=	Frontal Impact
WS	=	Wave Slap
IL	=	Impact Loading
TH	=	Twin Hull

Identifier #2: Format of Approach

TP	=	Theoretical Progress / Development
ER	=	Experimental Research
CH	=	Case Histories
DR	=	Design Research

Identifier #3: Nature of Data

AM	=	Analytical Model
ER	=	Experimental Research
AE	=	Analytical -vs- Experimental

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Andrew Kendrick, NKF Services, Montreal, Quebec
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Barbara A. Shaw, Chairman, Pennsylvania State University, University Park, PA
Robert Sielski, National Research Council, Washington, DC
Stephen E. Sharpe, Ship Structure Committee, Washington, DC

DESIGN WORK GROUP

John Niedzwecki, Chairman, Texas A&M University, College Station, TX
Bilal Ayyub, University of Maryland, College Park, MD
Ovide J. Davis, Pascagoula, MS
Maria Celia Ximenes, Chevron Shipping Co., San Francisco, CA

MATERIALS WORK GROUP

Barbara A. Shaw, Chairman, Pennsylvania State University, University Park, PA
David P. Edmonds, Edison Welding Institute, Columbus, OH
John F. McIntyre, Advanced Polymer Sciences, Avon, OH
Harold S. Reemsnyder, Bethlehem Steel Corp., Bethlehem, PA
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