

70th International Conference on Mass Properties 2011

**Houston, Texas, USA
14-19 May 2011**

ISBN: 978-1-61839-282-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by the Society of Allied Weight Engineers, Inc.
All rights reserved.

Printed by Curran Associates, Inc. (2011)

For permission requests, please contact the Society of Allied Weight Engineers, Inc.
at the address below.

Society of Allied Weight Engineers, Inc.
P.O. Box 60024, Terminal Annex
Los Angeles, CA 90060

Phone: (562) 596-2873
Fax: (562) 596-2874

ron.fox@sawe.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Ballasting Semi-Submersibles by using Systems of Equations.....	1
<i>Adam Richards</i>	
New Automatic Program For Ditching Analysis.....	16
<i>A. Ben Shall</i>	
Mass Properties and Automotive Vertical Acceleration.....	32
<i>Brian Paul Wiegand</i>	
International Weight Control Standard for the Offshore Oil & Gas Industry	147
<i>Ian David Bennett</i>	
Submarine Asymmetric Margin Selection.....	169
<i>David Tellet</i>	
Mass Properties and Automotive Lateral Acceleration.....	221
<i>Brian Paul Wiegand</i>	
An Approach towards Estimating and Validating Ship Stowage and Stowage Content Weight.....	313
<i>William Boze</i>	
Confidence of Mass Properties (COMP) Tool.....	329
<i>James Smith</i>	
Weight Data Management for Completion of Corporate Jets	343
<i>Ragaa Mitry</i>	
Professional Development Education Requirements and Their Role in the SAWE.....	361
<i>Anthony Primozich</i>	
Mass Properties Requirements for Marine Design Software.....	379
<i>Alan Titcomb, Keith Carter, Ronnie Moore</i>	
Innovative Design with Bi-Level Topology Optimization.....	397
<i>Alain Remouchamps, Michael Bruyneel, Stephane Grihon, Claude Fleury</i>	
Horizontal Tail Plane Weight Drivers Analysis in Preliminary Aircraft Design	407
<i>Ruben Gonzalez Gonzalez</i>	
Theoretical Assessment of Inertia Tensor Measurement Accuracy Part 1: Problem Definition and Basic Analyses	435
<i>G. Previati, G. Mastinu, M. Gobbi</i>	
Theoretical Assessment of Inertia Tensor Measurement Accuracy Part 2: General Case.....	459
<i>G. Previati, M. Gobbi, G. Mastinu</i>	
Author Index	