



NATIONAL TECHNICAL UNIVERSITY OF ATHENS
SHIP DESIGN LABORATORY



Published Work Prof. A. Papanikolaou



05-Dec-2022

Overview of Professor Papanikolaou' s Published Work

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TOTAL SUM: 676

Academic Theses:

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1. Papanikolaou, A., "Design Project of a 15.000 DWT Cargo Liner for the Route Hamburg (W. Germany) - Mombasa (Kenya)", 103 pp. + app., Computer Program (Diploma-Design Thesis), Tech. Univ. Berlin, Inst. f. Schiffstechnik, Chair of Ship Design, November 1971, Berlin (Germany)
2. Papanikolaou, A., "Systematic Comparison of the Required Horse-Power of Cargo Ships with Block Coefficient less 0.77 as estimated by the Methods of Silverleaf - Dawson and Taylor-Gertler, in Comparison to Experimental Full Scale and Model Test Results of VWS Berlin", 70 pp. + app., Computer Programs (Diploma Study Project Thesis - Studienarbeit), Tech. Univ. Berlin, Inst. f. Schiffstechnik, Chair of Ship Theory, July 1972, Berlin (Germany)
3. Papanikolaou, A., "Third-Order Wave Theory for Regular Waves of Finite Amplitude at Finite Water Depth by the Theories of Levi-Civita and Struik and Comparison with the Method of Borgman-Chappelear", 80 pp., Manuscript & Computer Program (Diploma Thesis - Diplomarbeit), Tech. Univ. Berlin, Inst. f. Schiffstechnik, Chair of Ship Structures, February 1973, Berlin (Germany)
4. Papanikolaou, A., "On the Nonlinear Problem of a Vertically Oscillating Cylinder of Arbitrary Shape", Dr.-Ing. Thesis, Tech. Univ. of Berlin, Inst. f. Schiffstechnik, D 83, 1977 Berlin (Germany)
5. Papanikolaou, A., "On Unified Methods of Wave Theory", Habilitation Degree Lecture, Tech. Univ. of Berlin, Inst. für Schiffstechnik, Rep. No. 81/7, April 1981, ii+60 pp., Berlin (Germany)

Self-contained Books (authored and edited):

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7. Papanikolaou, A. (ed), A Holistic Approach to Ship Design, Vol. 1: Optimisation of Ship Design and Operation for Life Cycle, SPRINGER Publishers, ISBN 978-3-030-02809-1, January 2019.
8. Papanikolaou, A., "Ship Design- Methodologies of Preliminary Design", Translation into Chinese from the English language edition published by Springer-Verlag Berlin - Heidelberg 2014, HARBIN ENGINEERING UNIVERSITY PRESS, Hardcover ISBN 978 - 7 -5661 - 1944 -5, JANUARY 2020.
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1. Papanikolaou, A., Commission of the European Communities (ed.), (Greek chapter), "Multilingual Dictionary of Fishing Vessels and Safety on Board", 2nd Edition, 947 pp., Brussels-Luxemburg, 1992
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3. Papanikolaou, A. (Chapter 5: Methods and Tools – Flooding, Mustering, Evacuation and Rescue) in Papanikolaou, A (Editor): "Risk-Based Ship Design – Methods, Tools and Applications", Springer, ISBN 978-3-540-89042-6, October 2008.
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5. Spanos, D., Papanikolaou, A., "Comparative Study of Simulation Methods on the Prediction of Parametric Roll of Ships in Waves", CENTEK Book on Marine Technology and Engineering (C. Guedes Soares et al, eds.), ISBN 978-0-415-69808-5, Taylor & Francis- A. A. Balkema Publ., The Netherlands, 2011
6. Papanikolaou, A., "Maritime Transport and Ship Design", Chapter 25 in Handbook of Transportation Engineering, 2nd edition, Vol. II: Applications and Technologies, Myer Kutz, Editor, Mc Graw Hill, New York, ISBN 978-0-07-161477-1, 2011
7. Boulougouris, E., Papanikolaou, A., "Recent Developments in the Design of Special Ship Types – Naval Ships", in E. Yfantis (ed.), The National Potential and the Design of a New Naval Ship (in Greek), Greek Naval Academy, Piraeus, ISBN 978-960-93-5014-3
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10. Nikolopoulos, L, Papanikolaou, A., Zaraphonitis, G., "Holistic Methods for the Optimal Design and Operation of Tankers", Chapter in Book Energy-Shipping and Maritime Transport (in Greek), editor N. Faradouris, Nomiki Bibliothiki, ISBN 978-960-562-114-8, 2013
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11. Spyrou, K., Papanikolaou, A., Lecture Notes on "Dynamic Stability and Safety of Ships against Capsizing", (in Greek), Dep. Of Naval arch. & Marine Eng., NTUA, Postgraduate Program, October 1999, Athens (Greece)
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14. Papanikolaou, A., "Design and Safety of Ro-Ro Passenger Ships", Lectures Notes, Postgraduate School on Design for Safety, Kasetsart University-Bangkok, EU Programme ASIA link ASI/B7-301/98/679-044, December 2004
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17. Papanikolaou, A., "Risk-based AFRAMAX Tanker Optimization", Lecture Notes, SAFEDOR School on Risk based Ship Design, Lyngby-Copenhagen, August 2008
18. Papanikolaou, A. (ed), "SAFEDOR Training Course on Risk-based Ship Design", Lecture Notes, Denmark Technical University – Danish Center for Applied Mathematics and Mechanics (DCAMM), August 2008
19. Papanikolaou, A., On the Prediction of the Added Resistance of Ships in Waves, Tech. Univ. Berlin, Berlin, July 2010

20. Papanikolaou, A., Potential Theory: Assumptions, Basic Elements, Applications/Limitations, Osaka University Prefecture, Osaka, February 2013.
21. Papanikolaou, A., Maritime Transport and Ship Design, Osaka University Prefecture, Osaka, February 2013.
22. Papanikolaou, A., Creating Novel Ship Design Concepts with Advanced Optimization Environment, Osaka University Prefecture Yards Seminar, Osaka, February 2013.
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24. Papanikolaou, A., Holistic Ship Design Optimization: Applications to the Design of Tankers and Passenger Ships, The Japan Society of Naval Architects and Ocean Engineers, KFR Meeting, Osaka, February 2013.
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26. Papanikolaou, A., Energy Efficiency of Ships: Its Impact on Environment and Safety, Nanyang Technical University, Singapore, September 2015.
27. Papanikolaou, A., Alissafaki, A., Eliopoulou, E., Papatzanakis, G., Ship Design and Outfitting I – Methodology of Ship Preliminary Design – Survey of Support Material (in Greek), Teaching Support Material, National Technical University of Athens, October 2015
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31. Papanikolaou, A., Review of Major Marine Accidents-The Evolution of the International Damage Stability Regulations- Numerical Simulation of Ship Capsize after Flooding, MARIC, Shanghai, May 2018.
32. Papanikolaou, A., HOLISTIC-MULTIOBJECTIVE SHIP DESIGN OPTIMISATION: Applications to the Design of Tankers, Containerships and Passenger Ships, MARIC, Shanghai, May 2018.
33. Papanikolaou, A., Maritime Transport and Ship Design, Zhejiang Ocean University, Zhoushan-China, May 2018.
34. Papanikolaou, A., Hydrodynamics and Ship Design: Optimization of Ships for Minimum Power and Safe Navigation in Adverse Weather Conditions, Invited lecture, 41st Weinblum Memorial Lecture, Hamburg, 21st November, 2018, <https://www.tuhh.de/weinblum-foundation/weinblum-memorial-lecture/201819-202728/201819-apostolos-d-papanikolaou.html>
35. Papanikolaou, A., Holistic Ship Design Optimisation, Invited Lecture, Norwegian University of Science and Technology (NTNU), Department of Marine Technology, October 7, 2021.

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3. Papanikolaou, A. (ed.), "Proceedings of the Open Stability Forum", Hersonissos, Crete, October 1997 (Greece)
4. Papanikolaou, A., "Contemporary Ideas on Ship Stability - Numerical Simulation of Damage Stability", Proc. 2nd Workshop on Ship Stability, ed. by Prof. H. Hamamoto, Osaka University, Osaka, November 1997 (Japan)
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6. Papanikolaou, A. (editor), "CD ROM on Small Craft Technology - Targeted Advanced Training Modules for the Marine Transport Industry – TAMAR I", NTUA-SDL: coordinator, Partners: FBM Marine Ltd, TU Delft, Univ. of Plymouth, Sirehna SA, Leonardo DG XII Program UK/98/2/05922/PI/II.1.1.c/FPC, WEGEMT, United Kingdom, June 2001
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