

Manning Analysis in Naval Ship Concept Design

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Thesis submitted to the Faculty of
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE

in

Ocean Engineering

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Description of item under review for fair use: Figure 2 Optimal Manning Curves, Spindel, et al., Optimized Surface Ship Manning, N.R.A. Committee, Editor. 2000. p. 25.

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Description of item under review for fair use: Figure 3 Two-Objective Attribute Space, Brown, A.J. and Thomas M., "Reengineering the Naval Ship Concept Design Process, From Research to Reality in Ship Systems Engineering Symposium. ASNE, 1998.

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Description of item under review for fair use: Figure 4 Three Objective Attribute Space, Brown, A.J. and Thomas M., "Reengineering the Naval Ship Concept Design Process, From Research to Reality in Ship Systems Engineering Symposium. ASNE, 1998.

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Description of item under review for fair use: Figure 5 Non Dominated Frontier (NDF), Scofield, T., "Manning and Automation for Naval Ship Analysis and Optimization" Master's Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA, April, 2006.

Report generated on: 06-26-2014 at : 22:43:28

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Description of item under review for fair use: Figure 6 Top Down Requirements Analysis, Malone, T.B, "HSI Top-Down Requirements Analysis for Ship Manpower Reduction". [Internet] [cited 2014].

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Description of item under review for fair use: Figure 7 NAVSEA- DDG 51 Manning Reductions, Hinkle, J. and Glover, T., "Reduced Manning in DDG 51 Class Warships: Challenges, Opportunities and the Way Ahead for Reduced Manning on all United States Navy Ships", ASNE, Engineering the Total Ship Symposium, National Institute for Standards and Technology, March 17-18, 2004.

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Description of item under review for fair use: Figure 8 TCM Microsoft Excel Sheets (Crew list, Schedule, Scenario), Scofield, T., "Manning and Automation for Naval Ship Analysis and Optimization" Master's Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA, April, 2006.

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Description of item under review for fair use: Figure 9 Concept and Requirements Exploration (C&RE) Process, Brown, A.J. and Waltham-Sajdak, J., "Still Re-Engineering the Naval Ship Concept Design Process", paper presented at ASNE Day, 2014.

Report generated on: 06-26-2014 at : 22:49:14

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Description of item under review for fair use: Figure 33 OMOE Hierarchy, Kennelly, N., et al., "Design Report: Guided Missile Destroyer (DDGx) VT Total Ship Systems Engineering", Virginia Polytechnic Institute and State University, Blacksburg, VA, 2013.

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Description of item under review for fair use: Table 10 Event Probability Estimate, Brown, A.J., AOE 4265/5315 Ship Design Course Notes, Aerospace and Ocean Engineering, Virginia Tech, 2013.

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Description of item under review for fair use: Figure 34 MOP Weights, Kennelly, N., et al., "Design Report: Guided Missile Destroyer (DDGx) VT Total Ship Systems Engineering", Virginia Polytechnic Institute and State University, Blacksburg, VA, 2013.

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Description of item under review for fair use: Table 11 Event Consequences Estimate, Brown, A.J., AOE 4265/5315 Ship Design Course Notes, Aerospace and Ocean Engineering, Virginia Tech, 2013.

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Description of item under review for fair use: Figure 35 Naval Ship Acquisition Cost Components, Stepanchick, J. and Brown, A.J., "Revisiting DDGX/DDG-51 Concept Exploration", Naval Engineers Journal, Vol. 119, No. 3, 73, 2007.

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