

Andrew Peterson

PhD Dissertation

Simulation and Testing of Wave-Adaptive Modular Vessels

December 20, 2013

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Andrew Peterson

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [2] Clark, D. J., Ellsworth W. M., & Meyer, J. R. (2004). The quest for speed at sea. NSW Carderock Division - Technical Digest, 3-27.

Report generated on: 12-17-2013 at : 14:24:48

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [3] Dubrovsky, V., & Matveev, K. (2005). New types of sea-going multi-hull ships with superior comfort level and safety. Passenger Vessels for the New Millenium: Joint Meeting of the Pacific Region Sections, 1-12.

Report generated on: 12-17-2013 at : 14:35:28

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Factor 4

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Name: Andrew Peterson

Description of item under review for fair use: [4] Zouridakis, F. (2005). A Preliminary Design Tool for Resistance and Powering Prediction of Catamaran Vessels (Master's Thesis), Massachusetts Institute of Technology, Cambridge, MA.

Report generated on: 12-17-2013 at : 14:38:36

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [7] Fu, T. C., Fullerton, A. M. & Minnick, L. M. (2007, August). Characterization of sea fighter, fsf-1, wave slam events, 9th International Conference on Numerical Ship Hydrodynamics. Ann Arbor, Michigan.

Report generated on: 12-17-2013 at : 14:41:17

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Name: Andrew Peterson

Description of item under review for fair use: [15] Lawther, A., & Griffin, M. J. (1988). Motion sickness and motion characteristics of vessels at sea, *Ergonomics*, 31(10), 1373-1394

Report generated on: 12-17-2013 at : 14:44:07

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [18] Wines, C. (2011, September). Stability and Safety Issues for High Speed Operation of Rigid Inflatable Boats, 11th International Conference on Fast Sea Transportation, Honolulu, Hawaii.

Report generated on: 12-17-2013 at : 14:46:16

Based on the information you provided:

Factor 1

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Name: Andrew Peterson

Description of item under review for fair use: [11] Riley, M.R., Coats T., Haupt, K., & Jacobson, D. (2011, September) Ride severity index – a new approach to quantifying the comparison of acceleration responses of high-speed craft, 11th International Conference on Fast Sea Transportation, Honolulu, Hawaii.

Report generated on: 12-17-2013 at : 14:49:45

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [19] Randall, R. E. (2010). Elements of ocean engineering. College Station, TX: Society of Naval Architects.

Report generated on: 12-17-2013 at : 14:57:51

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [20] Lewis, E. V., & Society of Naval Architects and Marine Engineers (U.S.). (1988). Principles of naval architecture. Jersey City, N.J: Society of Naval Architects and Marine Engineers.

Report generated on: 12-17-2013 at : 14:59:30

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Name: Andrew Peterson

Description of item under review for fair use: [23] Lee, R. A., & Pradko, F. (1968). Analytical analysis of human vibration, SAE Technical Paper, 680091.

Report generated on: 12-17-2013 at : 15:04:00

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [25] Dupuis, H., & Zerlett, G. (1986). The effects of whole-body vibration. Berlin: Springer-Verlag.

Report generated on: 12-17-2013 at : 15:06:50

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [28] McCauley, M. E., Royal, J. W., Wylie, C. D., O'Hanlon, J. F., & Mackie R. R. (1976). Motion sickness incidence: Exploratory studies of habituation, pitch and roll, and the refinement of a mathematical model, Human Factors Research, Inc. Technical Report, 1733-2.

Report generated on: 12-17-2013 at : 15:36:53

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [24] British Standard BS: 6841 (1987). Measurement and Evaluation of Human Exposure to Whole-Body Mechanical Vibration and Repeated Shock.

Report generated on: 12-17-2013 at : 15:38:09

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [37] (2011). Ride dynamics and evaluation of human exposure to whole body vibration, Test Operations Procedure: Final Report, 01-1-014A, Aberdeen Proving Ground, MD.

Report generated on: 12-17-2013 at : 15:39:42

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [36] Mansfield, N. J. (2005). Human response to vibration. Boca Raton, FL: CRC Press.

Report generated on: 12-17-2013 at : 15:41:05

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [40] Stark, D. R. (1980). Ride quality characterization and evaluation in the low frequency regime, with applications to marine vehicles, Human Factors in Transport Research, 2, 140-148.

Report generated on: 12-17-2013 at : 15:42:34

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [41] Conti, U. (2009). A perfect body, Multi-Agency Craft Conference, Norfolk, Virginia.

Report generated on: 12-17-2013 at : 15:51:04

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Name: Andrew Peterson

Description of item under review for fair use: [42] Bautista, J. Q., Riley, M. R., Kuehne, H. L., & Irvine, M. J. (2009). Marine advanced research WAM-V proteus propulsion, seakeeping, and miscellaneous trials, Naval Surface Warfare Center Carderock Division, Report NSWCCD-23-TM-2009/43.

Report generated on: 12-17-2013 at : 15:52:46

Based on the information you provided:

Factor 1

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Description of item under review for fair use: [43] Conti, U., & Gundersen, M. (2011, September). Second generation design of wave adaptive modular vessels (WAM-V®): A technical discussion of design improvements, 11th International Conference on Fast Sea Transportation, Honolulu, Hawaii.

Report generated on: 12-17-2013 at : 15:54:14

Based on the information you provided:

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Description of item under review for fair use: [44] Lamb, T., & Society of Naval Architects and Marine Engineers (U.S.). (2003). Ship design and construction. Jersey City, NJ: Society of Naval Architects and Marine Engineers.

Report generated on: 12-17-2013 at : 15:56:58

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Description of item under review for fair use: [46] Goodyear Tire and Rubber Company. (2008). [PDF data file]. #1S3-011. Retrieved from www.goodyearrep.com/WorkArea/DownloadAsset.aspx?id=15732

Report generated on: 12-17-2013 at : 16:00:33

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Description of item under review for fair use: [47] Kowalczyk, H., (2002). Damper tuning with the use of a seven post shaker rig, SAE Technical Paper Series, 2002-01-0804.

Report generated on: 12-17-2013 at : 16:02:21

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Name: Andrew Peterson

Description of item under review for fair use: [55] Rajamani, R. (2006). Vehicle dynamics and control. New York: Springer Science.

Report generated on: 12-17-2013 at : 16:08:50

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Description of item under review for fair use: [56] Langdon, J. (2007). Suspension Test Rig for the Accurate Re-creation of Vehicle Response (Master's Thesis), Virginia Polytechnic and State University, Blacksburg, VA.

Report generated on: 12-17-2013 at : 16:10:33

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Name: Andrew Peterson

Description of item under review for fair use: [57] Ellis, J. R. (1988). Road vehicle dynamics. Akron, OH: John R. Ellis Inc.

Report generated on: 12-17-2013 at : 16:11:43

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

(Please ensure that Javascript is enabled on your browser before using this tool.)

Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [45] Inman, D. J. (2008). Engineering vibration. Upper Saddle River, NJ: Pearson Prentice Hall.

Report generated on: 12-17-2013 at : 16:13:17

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [59] Vugts, J. H., (1968). The hydrodynamic coefficients for swaying, heaving and rolling cylinders on a free surface. Shipbuilding Laboratory, Technical University Delft, Report No. 112 S.

Report generated on: 12-17-2013 at : 16:17:15

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [60] Collins, S. (2012, January). J dampers in formula one. Racecar Engineering Magazine.

Report generated on: 12-17-2013 at : 16:23:18

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [64] Sun, H., & Faltinsen, O. M. (2006). Water impact of horizontal circular cylinders and cylindrical shells, Applied Ocean Research, 28(5): 299-311.

Report generated on: 12-17-2013 at : 16:25:13

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [65] Bertram, V. (2000). Practical ship hydrodynamics. Oxford: Butterworth-Heinemann.

Report generated on: 12-17-2013 at : 16:26:41

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [69] Firestone Industrial Products. (2011). [PDF data file]. #1T14C-3
Retrieved from http://fsip2.com/pdfs/industrial/datasheets/IMPERIAL_PDF/EMDG_1t14c-3.pdf

Report generated on: 12-17-2013 at : 17:11:02

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [72] Hammond, L., & Saunders, D. (199). The applicability of scaling laws to underwater shock tests, Maritime Platforms Division Aeronautical and Maritime Research Laboratory, Tech. Report No. DSTO-GD-0162.

Report generated on: 12-17-2013 at : 17:16:51

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [74] Daniels, Richard W. (1974). Approximation Methods for Electronic Filter Design. New York: McGraw-Hill.

Report generated on: 12-17-2013 at : 17:18:18

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [76] Boggs, C. M. (2009). The use of simulation to expedite experimental investigations of the effect of high-performance shock absorbers (Doctoral Dissertation), Virginia Polytechnic and State University, Blacksburg, VA.

Report generated on: 12-17-2013 at : 17:19:37

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [26] Griffin, M. J. (1996). Handbook of Human Vibration. London: Academic Press.

Report generated on: 12-17-2013 at : 17:20:48

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*

Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [81] Mousaviraad, S.M., Conger, M., Peterson, A., Craft, M., Ahmadian, M., & Stern F. (2013, November). URANS cfd for two-body hydrodynamic simulation of wave adaptive modular (wam-v) vessels and validation against sea trials, 30th Symposium on Naval Hydrodynamics, Hobart, Australia.

Report generated on: 12-17-2013 at : 17:22:45

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Andrew Peterson

Description of item under review for fair use: [83] Marcu, F. (2009). Semiactive cab suspension control for semitruck applications (Doctoral Dissertation), Virginia Polytechnic and State University, Blacksburg, VA

Report generated on: 12-17-2013 at : 17:24:02

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

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Draft 09/01/2009

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Virginia Tech ETD Fair Use Analysis Results

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Name: Andrew Peterson

Description of item under review for fair use: [84] Nagode, C. (2013). Electromechanical suspension-based energy harvesting systems for railroad applications (Doctoral Dissertation), Virginia Polytechnic and State University, Blacksburg, VA.

Report generated on: 12-17-2013 at : 17:25:36

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use*