

Publications

(Available upon Request)

Books and Book Chapters

- Neil B. Morley and Mark S. Tillack, *Magnetohydrodynamics*, chapter in the **Standard Handbook for Electrical Engineers**, 15th Edition, McGraw Hill, pp 11-96 – 11-130, 2006.
- Mark S. Tillack and Neil B. Morley, *Magnetohydrodynamics*, chapter in the **Standard Handbook for Electrical Engineers**, 14th Edition, McGraw Hill, pp 11-109 – 11-144, 2000.
- Neil B. Morley, *Numerical and experimental modeling of liquid metal, thin film flows in a quasi-coplanar magnetic field*, Ph.D. Dissertation, University of California, Los Angeles, 1994.
(<http://www.fusion.ucla.edu/neil/Publications/MorleyDissertation.pdf>)

Editorships

- Editorial Board Member, Fusion Engineering and Design, Elsevier Science Ltd., North Holland Press (Jan 2008 – ongoing)
- Editor: M. A. Abdou; Guest Editors: A. Shimizu, T. Ando, M. Akiba; Assistant Editors (in alphabetical order) P. Batistoni, N. B. Morley, R. Raffray, M. E. Sawan, C. P. C. Wong, *Proceedings of the Seventh International Symposium on fusion Nuclear Technology, ISFNT-7, Parts A and B*, Fusion Engineering and Design, Vol. 81, pp. 1-1706, 2006.
- M. Abdou, N. Morley, M. Sawan, Editors, *Special Issue on Innovative High-Power Density Concepts for Fusion Plasma Chambers*, Fusion Engineering and Design, Vol. 72, Issues 1-3, pp. 1-326, November, 2004.
- M.A Abdou, Editor; O. Motojima, N.B. Morley, S. Tanaka, Guest Editors; A Fiege, K.A. McMarthy, S. Ohtsu, Assistant Editors, *Proceedings of the 4th International Symposium on Fusion Nuclear Technology*, Fusion Engineering and Design Vol. 39-40, Part A, pp. 1-1084; Vol. 41, Part B, pp. 1-628; Vol. 42, Part C, pp. 1- 592, 1998.

Journal Publications

Submitted

- N.B. Morley, A. Media and M.A. Abdou, *Measurements of specific electrical contact resistance between SiC and Lead-Lithium eutectic alloy*, Fusion Science and Technology, Submitted, 2008.

Accepted for Publication

- N. B. Morley, M.-J. Ni, R. Munipalli, P. Huang and M. A. Abdou, *MHD simulations of liquid metal flow through a toroidally-oriented manifold*, Fusion Engineering and Design, To appear, 2008.
- N.B. Morley, Y. Katoh, S. Malang, B. Pint, A.R. Raffray, S. Sharafat, S. Smolentsev, G. E. Youngblood, *Recent research and development for the dual coolant blanket concept in the US*, Fusion Engineering and Design, To appear, 2008.
- S. Smolentsev, N.B. Morley; C. Wong and M.A. Abdou, *MHD and heat transfer considerations for the US DCLL blanket for DEMO and ITER TBM*, Fusion Engineering and Design, To appear, 2008.

- J. Takeuchi, S. Satake, N.B. Morley, T. Kunugi, T. Yokomine, M.A. Abdou, *Experimental study of MHD effects on turbulent flow of Flibe simulant fluid in a circular pipe*, Fusion Engineering and Design, To appear, 2008.
- T. Yokomine, J. Takeuchi, H. Nakaharai, N.B. Morley, T. Kunugi, S. Satake, M.A. Abdou, *Experimental study of MHD effects on heat transfer characteristics on turbulent pipe flow of Flibe simulant fluid*, Fusion Engineering and Design, To appear, 2008.
- C.P.C. Wong, J-F. Salavy, Y. Kim, I. Kirillov, E. Rajendra Kumar, N.B. Morley, S. Tanaka, and Y.C. Wu, *Overview of liquid metal TBM concepts and programs*, Fusion Engineering and Design, To appear, 2008.
- K. Abe, A. Kohyama, S. Tanaka, C. Namba, T. Terai, T. Kunugi, T. Muroga, A. Hasegawa, A. Sagara, G. Nardella, S. Berk, S. Zinkle, D. Sze, D. Petti, M. Abdou, N. B. Morley, R. Kurtz, L. Snead and N. Ghoniem, *Development of advanced blanket performance under irradiation and system integration through JUPITER-II project*, Fusion Engineering and Design, To appear, 2008.

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- K. Yuki, M. Okomura, H. Hashizume, S. Toda, N. B. Morley, A. Sagara, *Flow Visualization and Heat Transfer Characteristics for Sphere-Packed Pipes*, Journal of Thermophysics and Heat Transfer, Vol. 22, No. 4, pp. 632-648, 2008.
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- N.B. Morley, J. Burris, L. C. Cadwallader, M.D. Nornberg, *Ga-In-Sn usage in the research laboratory*, Review of Scientific Instruments, Vol. 79, 2008.
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