

2008 年度業績 一望月 正人

学術論文・解説記事

1. M. Mochizuki, G. B. An and M. Toyoda, Thermal Elastic-Plastic Analysis Considering Temperature Rise by Rapid Plastic Deformation in Undermatched Joints, Trans. ASME, J. Pressure Vessel Technology, 131(3), 10.1115/1.3027477, 031202, 2009
2. K. Miyazaki, M. Numata, K. Saito and M. Mochizuki, Effect of Distance from the Center of Weld to the Fixed End on Residual Stress and Stress Intensity Factor of the Piping Weld, Trans. ASME, J. Pressure Vessel Technology, 131(2), 10.1115/1.3007428, 2009
3. Y. Mikami, Y. Morikage, M. Mochizuki and M. Toyoda, Angular Distortion of Fillet Welded T Joint Using Low Transformation Temperature Welding Wire, Science and Technology of Welding and Joining, 14(2), 97-105, 2009
4. 望月正人, 三上欣希, 山崎紘樹, 豊田政男, 溶接変形に及ぼす始末端部の影響に関する解析的検討, 溶接学会論文集, 26(2), 145-151, 2009
5. H. Shirai, S. Okano, M. Mochizuki and M. Toyoda, Study of Weldability for Circularly Heat Input, Materials Science Forum, 580-582, 667-670, 2008
6. S. Okano, M. Mochizuki and M. Toyoda, Angular Distortion Reduction by In-Process Control Welding Using Back Heating Sources, Materials Science Forum, 580-582, 585-588, 2008
7. M. Mochizuki, S. Okano, G. B. An and M. Toyoda, Measurement of Through-Thickness Residual Stress in Primary Piping of Girth Welded Joint, Materials Science Forum, 580-582, 577-580, 2008
8. J. Katsuyama, M. Mochizuki, H. Mori, W. Asano, G. B. An and M. Toyoda, Geometrical and Welding Conditions on Through-Thickness Residual Stress in Primary Piping of Girth Welded Joints, Materials Science Forum, 580-582, 573-576, 2008
9. K. Mitani, M. Mochizuki and M. Toyoda, Investigation of Wall Thinning and Residual Stress Measurements in Welded Steel Plates by Electromagnetic Acoustic Resonance, Materials Science Forum, 580-582, 113-116, 2008
10. 森裕章, 勝山仁哉, 望月正人, 西本和俊, 表層加工された低炭素ステンレス鋼溶接部における粒界すべり挙動に及ぼす残留応力および加工硬化の影響, 日本保全学会誌, 7(1), 36-41, 2008
11. M. Mochizuki, Weld Distortion Simulation of Automotive Suspension Parts, Proc. PAM-U Cnference 2008, 521-524, 2008
12. 西本和俊, 才田一幸, 望月正人, 森裕章, ステンレス鋼レーザ溶接部の高信頼性化に関する研究, 資源エネルギー庁原子力人材育成シンポジウム「稔りある原子力人材育成を目指して」論文集, 59-60, 2008

国際会議プロシーディングス

1. T. Satoh, Y. Mikami, M. Mochizuki, N. Suzuki and M. Toyoda, Effect of Geometric Imperfections and Mechanical Properties on Bending Capacity of High-Strength Linepipes, Proc. 8th Int. Welding Symp. Japan Welding Society, Special Session: Pipeline Technology Now and Then, 1, 119-125, 2008
2. A. Kubo, H. Iwahashi, S. Okano, M. Mochizuki, M. Toyoda, T. Nakamura and K. Hiraoka, Study on Effect of Welding Heat Input on Welded Joints Performance of Ultra-Fine Grained Steel, Proc. 8th Int. Welding Symp. Japan Welding Society, PT2-55, 2008
3. J. Yamada, S. Okano, H. Mori, M. Mochizuki, K. Nishimoto, Analytical Examination Concerning Strain Behavior Effecting Solidification Cracking Susceptibility in Low Carbon Austenitic Stainless Steel Laser Weld, Proc. 8th Int. Welding Symp. Japan Welding Society, PT2-32, 2008
4. A. Inao, Y. Mikami, K. Nakashima, H. Shimanuki, M. Mochizuki and M. Toyoda, Observation of Fatigue Crack Propagation Paths in Ferrite-Martensite Lamellar Steels, Proc. 8th Int. Welding Symp. Japan Welding Society, PT-2-13, 2008
5. R. Uruguchi, Y. Mikami, R. Higuchi, M. Mochizuki, M. Toyoda, A 3-D Analytical Study of the Microscopic Stress Distribution Considering the Heterogeneity of Microscopic Structure of Steel, Proc. 8th Int. Welding Symp. Japan Welding Society, PT-2-11, 2008
6. M. Hasegawa, R. Hamanaka, S. Okano, Y. Mikami, M. Mochizuki and M. Toyoda, Basic Development of Structure Distortion Evaluation System Using Inherent Strain, Proc. 8th Int. Welding Symp. Japan Welding Society, PT-2-10, 2008
7. Y. Mikami, M. Mochizuki and M. Toyoda, A Parametric Study on the Effect of the Transformation Expansion of High-strength Weld Metals on the Restraint Stress, Proc. 8th Int. Welding Symp. Japan Welding Society, PT-1-14, 2008
8. S. Okano, M. Mochizuki and M. Toyoda, Effect of Welding Conditions on Reduction of Angular Distortion by In-Process Control Welding using Back Heating Source, Proc. 8th Int. Welding Symp. Japan Welding Society, PT-1-13, 2008
9. T. Satoh, Y. Mikami, M. Mochizuki, N. Suzuki and M. Toyoda, Effect of Geometric Imperfections and Mechanical Properties on Bending Capacity of High-Strength Linepipes, Proc. 8th Int. Welding Symp. Japan Welding Society, SB-3-6, 2008
10. Y. Mikami, M. Mochizuki and M. Toyoda, Numerical Simulation of Transformation-Induced Microscopic Residual Stress in Ferrite- Martensite Lamellar Steel, Proc. 8th Int. Welding Symp. Japan Welding Society, PO-11, 2008
11. M. Mochizuki, Y. Mikami, S. Okano and S. Itoh, Computational Simulation of Weld

- Microstructure and Distortion by Considering Process Mechanics, Abstract Book for Int. Conf. Advanced Structural and Functional Materials 2008, OR-203, 2008
12. M. Mochizuki, Y. Mikami and S. Okano, Weld Microstructure and Distortion Controls by Considering Process Mechanics, 61st Annual Assembly of International Institute of Welding, IIW Doc. X-1644-08, 2008
 13. T. Sato, Y. Mikami, M. Mochizuki, N. Suzuki and M. Toyoda, Parametric Study on the Effect of Geometric Imperfections on the Bending Capacity of High-Strength Linepipes, Proc. 7th Int. Pipeline Conf., IPC2008-64544, 2008
 14. W. Asano, J. Katsuyama, K. Onizawa, M. Mochizuki and M. Toyoda, Effect of Surface Machining and Butt-Welding on Residual Stress and Hardness of Type 316L Stainless Steel Pipes, Proc. 2008 ASME Pressure Vessels and Piping Conf., PVP2008-61441, 2008
 15. Y. Morikage, T. Kubo, K. Yasuda, Y. Mikami and M. Mochizuki, Effect of Transformation Temperature of Weld Metal on Welding Distortion, Proc. 27th Int. Conf. Offshore Mechanics and Arctic Engineering, OMAE2008-57709, 2008

受賞

1. 望月正人, 米国機械学会 (American Society of Mechanical Engineers, ASME) 最優秀会議企画・貢献特別賞, H20.7.30

シンポジウム開催状況

1. International Symposium on Welding and Fracture Mechanics to Pipeline Technology, 主な招待講演者: Prof. Stephen Liu コロラド鉱山大学, Dr. Mustafa Kocak ドイツ・GKSS 研究所, Prof. Christian Thaulow ノルウェー理工科大学, 参加人数 250 (外国人参加者数 20)