

第 1 回 原子力機器健全性国際ワークショップ 関連投稿論文

May 8, 1996, Taejon, Korea

- ✓ K Kashima, N Miura, S Kanno, K Miyazaki, M Ishiwata, N Gotoh, "A research program for dynamic fracture evaluation of Japanese carbon steel pipes," *Nuclear Engineering and Design*, **174**, pp. 33-39, (1997).
- ✓ Masanori Kikuchi, "Study on the effect of the crack length on the J_{IC} value," *Nuclear Engineering and Design*, **174**, pp. 41-49, (1997).
- ✓ Katsuyuki Shibata, "Progress of LWR structural safety research at JAERI," *Nuclear Engineering and Design*, **174**, pp. 79-90, (1997).
- ✓ G Yagawa, S Yoshimura, N Soneda, M Hirano, "Probabilistic fracture mechanics analyses of nuclear pressure vessels under PTS events," *Nuclear Engineering and Design*, **174**, pp. 91-100, (1997).

第 2 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 20-21, 1998, Tokyo, Japan

- ✓ Koji Koyama, Itaru Muroya, Toshihiko Tanaka, Takao Nakamura, "Low alloy steel piping test for fracture criteria of leak before break," *Nuclear Engineering and Design*, **191**, pp. 147-156, (1999).
- ✓ Jun Matsumoto, "Core shroud replacement of Fukushima-Daiichi Unit #3," *Nuclear Engineering and Design*, **191**, pp. 167-175, (1999).
- ✓ N. Miura, "Approximate evaluation method for ductile fracture analysis of a circumferentially through-wall-cracked pipe subjected to combined bending and tension," *Nuclear Engineering and Design*, **191**, pp. 177-194, (1999).
- ✓ Katsumasa Miyazaki, Satoshi Kanno, Masayuki Ishiwata, Kunio Hasegawa, Soek Hwan Ahn, Kotoji Ando, "Fracture behavior of carbon steel pipe with local wall thinning subjected to bending load," *Nuclear Engineering and Design*, **191**, pp. 195-204, (1999).
- ✓ Yonezou Tujikura, Shigeru Urata, "Fracture mechanics evaluation of cast duplex stainless steel after thermal aging," *Nuclear Engineering and Design*, **191**, pp. 255-261, (1999).
- ✓ Genki Yagawa, Yasuhiro Kanto, Shinobu Yoshimura, "Probabilistic fracture mechanics of nuclear structural components: consideration of transition from embedded crack to surface crack," *Nuclear Engineering and Design*, **191**, pp. 263-273, (1999).

第3回 原子力機器健全性国際ワークショップ 関連投稿論文

October 11-12, 2000, Taoyuan, Taiwan

- ✓ Noriyoshi Maeda, Shinichi Nakagawa, Genki Yagawa, Shinobu Yoshimura, "Optimization of operation and maintenance of nuclear power plant by probabilistic fracture mechanics," *Nuclear Engineering and Design*, **214**, pp. 1-12, (2002).
- ✓ Kiyoshi Takanabe, Takashi Miyake, Yasumi Nagura, "Development of advanced CRDM without canopy seal welds," *Nuclear Engineering and Design*, **214**, pp. 25-34, (2002).
- ✓ Shigeko Nomoto, Takao Nakamura, "Improvement of the strain concentration factor for simplified elastic-plastic analysis," *Nuclear Engineering and Design*, **214**, pp. 41-45, (2002).
- ✓ Kei Kobayashi, "Aseismic evaluation for aging degradation of nuclear power plant components," *Nuclear Engineering and Design*, **214**, pp. 57-71, (2002).
- ✓ Katsuyuki Shibata, Kunio Onizawa, Daisuke Kato, Yinsheng Li, Genki Yagawa, "Research and development related to PFM for aged nuclear components," *Nuclear Engineering and Design*, **214**, pp. 113-126, (2002).
- ✓ Katsumasa Miyazaki, Akira Nebu, Masayuki Ishiwata, Kunio Hasegawa, "Fracture strength and behavior of carbon steel pipes with local wall thinning subjected to cyclic bending load," *Nuclear Engineering and Design*, **214**, pp. 127-136, (2002).
- ✓ Hideo Kobayashi, Koichi Kashima, "Japanese fitness-for-service code for nuclear power plants—summary of flaw evaluation procedures," *Nuclear Engineering and Design*, **214**, pp. 147-149, (2002).

第4回 原子力機器健全性国際ワークショップ 関連投稿論文

April 15-16, 2002, Cheju, Korea

第5回 原子力機器健全性国際ワークショップ 関連投稿論文

April 21-22, 2004, Kyoto, Japan

- ✓ Katsuyuki Shibata, Yasuhiro Kanto, Shinobu Yoshimura, Genki Yagawa, "Recent Japanese Probabilistic Fracture Mechanics Researches Related to Failure Probability of Aged RPV," *Solid State Phenomena*, **120**, pp. 49-67, (2007).
- ✓ Kunio Hasegawa, Hiroaki Tamako, Katsumasa Miyazaki, "Allowable Subsurface Flaws Located Near Vessel Surface in JSME Code," *Solid State Phenomena*, **120**, pp. 77-84, (2007).
- ✓ Naoki Miura, Katsumasa Miyazaki, Masakazu Hisatsune, Kunio Hasegawa, Koichi Kashima, "Ductile Fracture Behaviour of Class 2 and 3 LWR Piping and Its Implications for Flaw Evaluation Criteria," *Solid State Phenomena*, **120**, pp. 85-94, (2007).
- ✓ Yoshihiro Isobe, Mitsuyuki Sagisaka, Shinobu Yoshimura, Genki Yagawa, "Economic Evaluation of Maintenance Strategies for Steam Generator Tubes Using Probabilistic Fracture Mechanics and a Financial Method," *Solid State Phenomena*, **120**, pp. 119-126, (2007).
- ✓ Masayuki Kamaya, Toshihisa Nishioka, "Finite Element Alternating Method for Interacting Surface Cracks," *Solid State Phenomena*, **120**, pp. 147-153, (2007).
- ✓ Hitohsi Kaguchi, Koji Hamada, Akihisa Sugiyama, Hideyuki Morita, Koji Setta, Hideyasu Ogo,

Eiji Shirai, "Proposal of Rationalized Assessment Procedure for Buckling of Thin-Walled Cylindrical Tanks," *Solid State Phenomena*, **120**, pp. 199-206, (2007).

第 6 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 25-26, 2006, Kenting, Taiwan

- ✓ H. Yamashita, S. Ooki, Y. Tanaka, K. Takamori, K. Asano, S. Suzuki, "SCC growth behavior of BWR core shroud materials," *International Journal of Pressure Vessels and Piping*, **85**, pp. 582-592, (2008).
- ✓ Akira Nebu, Katsumasa Miyazaki, Koichi Saito, "Ductile fracture strength of nickel-based alloy plates with a surface flaw," *International Journal of Pressure Vessels and Piping*, **85**, pp. 612-615, (2008).
- ✓ Masayuki Kamaya, Tomohisa Suzuki, Toshiyuki Meshii, "Failure pressure of straight pipe with wall thinning under internal pressure," *International Journal of Pressure Vessels and Piping*, **85**, pp. 628-634, (2008).
- ✓ Akio Tanaka, Kensuke Futahashi, Kiyoshi Takanabe, Chikara Kurimura, Jungo Kato, Hidekiyo Hara, "Development of a 3-D simulation analysis system for PWR control rod drive mechanism," *International Journal of Pressure Vessels and Piping*, **85**, pp. 655-661, (2008).

第 7 回 原子力機器健全性国際ワークショップ 関連投稿論文

July 2-4, 2008, Muju, Korea

- ✓ Kunio Onizawa, Hiroyuki Nishikawa, Hiroto Itoh, "Development of probabilistic fracture mechanics analysis codes for reactor pressure vessels and piping considering welding residual stress," *International Journal of Pressure Vessels and Piping*, **87**, pp. 2-10, (2010).
- ✓ Y. Kanto, K. Onizawa, H. Machida, Y. Isobe, S. Yoshimura, "Recent Japanese research activities on probabilistic fracture mechanics for pressure vessel and piping of nuclear power plant," *International Journal of Pressure Vessels and Piping*, **87**, pp. 11-16, (2010).
- ✓ N. Miura, Y. Takahashi, "Evaluation of J-integral for surface cracked plates under biaxial loading using extended reference stress method," *International Journal of Pressure Vessels and Piping*, **87**, pp. 58-65, (2010).
- ✓ Masayuki Kamaya, Hideo Machida, "Reference stress method for evaluation of failure assessment curve of cracked pipes in nuclear power plants," *International Journal of Pressure Vessels and Piping*, **87**, pp. 66-73, (2010).

第 8 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 14-16, 2010, Hyogo, Japan

- ✓ Masanori Kikuchi, Yoshitaka Wada, Yuto Shimizu, Yulong Li, “Crack growth analysis in a weld-heat-affected zone using S-version FEM,” *International Journal of Pressure Vessels and Piping*, **90-91**, pp. 2-8, (2012).
- ✓ Yoshihiko Tanaka, “Study on analogy between dynamic load and displacement-controlled load,” *International Journal of Pressure Vessels and Piping*, **90-91**, pp. 37-45, (2012).
- ✓ Y. Kanto, M.-J. Jhung, K. Ting, Y.-B. He, K. Onizawa, S. Yoshimura, “Summary of International PFM Round Robin analyses among Asian Countries on reactor pressure vessel integrity during pressurized thermal shock,” *International Journal of Pressure Vessels and Piping*, **90-91**, pp. 46-55, (2012).
- ✓ Takuya Ogawa, Masao Itatani, Toshiyuki Saito, Takahiro Hayashi, Chihiro Narazaki, Kentaro Tsuchihashi, “Fracture assessment for a dissimilar metal weld of low alloy steel and Ni-base alloy,” *International Journal of Pressure Vessels and Piping*, **90-91**, pp. 61-68, (2012).
- ✓ Naoki Ogawa, Itaru Muroya, Youichi Iwamoto, Takahiro Ohta, Mayumi Ochi, Kiminobu Hojo, Kazuo Ogawa, “Studies of residual stress measurement and analysis techniques for a PWR dissimilar weld joint,” *International Journal of Pressure Vessels and Piping*, **90-91**, pp. 84-90, (2012).

第 9 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 18-20, 2012, Kaohsiung, Taiwan

- ✓ Masayuki Kamaya, “Estimation of elastic-plastic fracture toughness by numerical simulation based on a stress-based criterion for ductile crack initiation,” *International Journal of Pressure Vessels and Piping*, **117-118**, pp. 2-8, (2014).
- ✓ Yoshiyuki Saito, Junichi Kishimoto, Toshihiro Matsuoka, Hiroki Tamaki, Akio Kitada, “Containment integrity evaluation of MSF-type cask for interim storage and transport of PWR spent fuel,” *International Journal of Pressure Vessels and Piping*, **117-118**, pp. 33-41, (2014).
- ✓ H. Takazawa, N. Yanagida, “Effect of creep constitutive equation on simulated stress mitigation behavior of alloy steel pipe during post-weld heat treatment,” *International Journal of Pressure Vessels and Piping*, **117-118**, pp. 42-48, (2014).
- ✓ J. Katsuyama, H. Itoh, Y. Li, K. Osakabe, K. Onizawa, S. Yoshimura, “Benchmark analysis on probabilistic fracture mechanics analysis codes concerning fatigue crack growth in aged piping of nuclear power plants,” *International Journal of Pressure Vessels and Piping*, **117-118**, pp. 56-63, (2014).

第 10 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 16-18, 2014, Busan, Korea

- ✓ M. Nagai, N. Miura, M. Shiratori, “Stress intensity factor solution for a surface crack with high aspect ratio subjected to an arbitrary stress distribution using the influence function method,” *International Journal of Pressure Vessels and Piping*, **131**, pp. 2-9, (2015).
- ✓ Takuya Ogawa, Masao Itatani, Chihiro Narazaki, Toshiyuki Saito, “Fracture behavior evaluations for ferritic steel piping with circumferential double flaws on the inner surface,” *International Journal of Pressure Vessels and Piping*, **131**, pp. 15-21, (2015).
- ✓ Masayuki Kamaya, “Elastic-plastic failure assessment of cold worked stainless steel pipes,” *International Journal of Pressure Vessels and Piping*, **131**, pp. 45-51, (2015).
- ✓ Makoto Udagawa, Jinya Katsuyama, Kunio Onizawa, Yinsheng Li, “Failure probability analyses for PWSCC in Ni-based alloy welds,” *International Journal of Pressure Vessels and Piping*, **131**, pp. 85-95, (2015).

第 11 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 11-13, 2016, Nagasaki, Japan

- ✓ Makoto Udagawa, Yinsheng Li, Akemi Nishida, Izumi Nakamura, “Failure behavior analyses of piping system under dynamic seismic loading,” *International Journal of Pressure Vessels and Piping*, **167**, pp. 2-10, (2018).
- ✓ Tomonori Yamada, Shinobu Yoshimura, Yuuichi Koide, Shohei Onitsuka, Tadashi Iijima, “Verification and validation of dynamic response simulation codes for BWR fuel assemblies under seismic loading,” *International Journal of Pressure Vessels and Piping*, **167**, pp. 25-31, (2018).
- ✓ Masaki Nagai, Naoki Miura, Masato Yamamoto, “Pedestrian: Probabilistic fracture mechanics analysis code based on direct sampling with replacement,” *International Journal of Pressure Vessels and Piping*, **167**, pp. 52-58, (2018).
- ✓ H. Takazawa, K. Hirozaka, K. Miyazaki, N. Tohyama, S. Saigo, N. Matsumoto, “Failure probability analyses for PWSCC in Ni-based alloy welds,” *International Journal of Pressure Vessels and Piping*, **167**, pp. 66-71, (2018).

第 12 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 16-18, 2018, Hualien, Taiwan

- ✓ Naoto Kasahara, Md Abdullah Al Bari, Ryota Sakemi, “Failure modes of piping under seismic loads which have both load and displacement controlled characteristics,” *International Journal of Pressure Vessels and Piping*, **179**, (2020), 103938.
- ✓ Takuya Ogawa, Yohei Ono, Masao Itatani, Takahiro Hayashi, Toshiyuki Saito, “Evaluation of mechanical properties distribution for irradiated stainless steels simulated by utilizing the gradient of the cold working ratio,” *International Journal of Pressure Vessels and Piping*, **179**, (2020), 103939.

- ✓ Akihiro Mano, Jinya Katsuyama, Yuhei Miyamoto, Yoshihito Yamaguchi, Yinsheng Li, “A new probabilistic evaluation model for weld residual stress,” *International Journal of Pressure Vessels and Piping*, **179**, (2020), 103945.

第 13 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 21-22, 2021, Virtual Meeting

- ✓ Tomoki Shinko, Masato Yamamoto, “Convertibility of Front Face Displacement to External Load-Line Displacement for ductile crack growth test on miniature C(T) specimen,” *International Journal of Pressure Vessels and Piping*, **197**, (2022), 104630.
- ✓ Akihiro Mano, Ryuta Imai, Yuhei Miyamoto, Kai Lu, Jinya Katsuyama, Yinsheng Li, “Improvement of the return mapping algorithm based on the implicit function theorem with application to ductile fracture analysis using the GTN model,” *International Journal of Pressure Vessels and Piping*, **199**, (2022), 104700.
- ✓ Shunsuke Takagi, S. Yoshida, “Development of estimation method for material property under high strain rate condition utilizing experiment and analysis,” *International Journal of Pressure Vessels and Piping*, **199**, (2022), 104771.

第 14 回 原子力機器健全性国際ワークショップ 関連投稿論文

April 12-14, 2023, Kanazawa, Japan

- ✓ Shuichi Yoshida, Takuya Ogawa, Takahiro Hayashi, Toshiyuki Saito, Yasuhiro Hattori, Shunsuke Sasaki, “Study on fracture assessment by GTN model for BWR reactor internals based on material properties of simulated irradiated stainless steels,” *International Journal of Pressure Vessel Piping*, **208**, (2024), 105147.
- ✓ Satoyuki Tanaka, Thin Thin Htut, Hiroshi Okada, Takahiko Gouda, Yuta Tonbe, Takumi Nagano, “A benchmark elastic–plastic finite element analysis of plate with a surface crack under tensile load for the development of the reference stress method,” *International Journal of Pressure Vessel Piping*, **209**, (2024), 105182.
- ✓ H. Takamizawa, K. Lu, Y. Li, “Probabilistic fracture mechanics analyses of a reactor pressure vessel using the irradiation embrittlement evaluation based on the Bayesian nonparametric method,” *International Journal of Pressure Vessel Piping*, **210**, (2024), 105219.