

Resume:



Name: Dr. Debashis Datta

Research Interests: Structural Integrity, Probabilistic Fracture Mechanics, Probabilistic Risk Assessment, Nuclear Safety.

Educational Background:

1. Doctor of Philosophy in Nuclear and Quantum Engineering, KAIST, Republic of Korea, 2010 (KRF scholarship).
2. Master of Science in Nuclear and Quantum Engineering, KAIST, Republic of Korea, 2006 (IAEA RCA scholarship).
3. Master of Science in Petroleum and Mineral Resources Engineering, BUET, 2003.
4. Bachelor of Science in Mechanical Engineering, BUET, 1997.

List of Publications:

1. D. Datta, C. Jang “Failure probability assessment of a PWR Primary System Piping Subcomponents under different loading conditions,” Second International Symposium on Nuclear Power Plant Life Management, IAEA-CN-155-030P, 15-18 October 2007, Shanghai, China.
2. Debashis Datta, Changheui Jang, “Leak Failure Analysis of the Stainless Steel Narrow Gap Welds in Nuclear Power Plant Piping,” KNS, P04E01, October 25-26, 2007.
3. C. Jang, D. Datta, J. S. Yang, “Development of a Probabilistic Fracture Mechanics Code for Primary System Pipes and Application for RI-ISI,” Proceedings of ASME PVP2008 Conference, Chicago, Illinois, USA, PVP2008-61831, July 27-31, 2008.
4. Debashis DATTA, Changheui JANG, and Jun-Seog YANG, “Leak Failure Analysis for Reactor Coolant Loop in a Nuclear Power Plant,” 16th Pacific Basin Nuclear Conference (16PBNC), Aomori, Japan, Paper ID P16P1153, Oct. 13-18, 2008.
5. Datta D, Jang C. “Failure assessment of nuclear piping components due to combined degradation mechanisms by an advanced probabilistic fracture mechanics code,” Proceedings of ASME PVP2009 Conference, Prague, Czech Republic, PVP2009-77904, July 26-30, 2009.
6. Debashis Datta and Changheui Jang, “Integrity Evaluation of Nuclear Piping System under Combined Aging Mechanisms – Part I: Development of PINTIN-CAM Code,” accepted for publication in “*Journal of Pressure Vessel Technology - T of the ASME*”, 2012.
9. Datta D, Jang C. Incorporation of materials’ sensitive simulation technique into the PINTIN-CAM code for integrity of nuclear piping system. Proceedings of the ASME 2010 Pressure Vessels & Piping Division / K-PVP Conference, Bellevue, Washington, USA, PVP2010-25395, July 18-22, 2010.

10. **Patent-1. PINTIN-SAM:** single aging mechanism based PFM code (No. 201001123004193).
11. **Patent-2. PINTIN-CAM:** combined aging mechanism based PFM code (No. 201001123004194).
12. **Patent-3. PINEP-PWSCC:** Probabilistic INtegrity Evaluation for Nuclear Piping-PWSCC code (No. 201001123004195).

Teaching Assistant:

1. T.A. for Prof. Charles L. Sanders (shirley.sanders1@gmail.com), NQe 371 (Introduction to Radiation Biophysics), KAIST, Spring Semester, 2009 and 2010.
2. T.A. for Prof. Changheui Jang (chjang@kaist.ac.kr), NQe 202 (Fundamentals of Nuclear Engineering), KAIST, Spring Semester, 2009.

Teaching Experience:

1. Adjunct Faculty, Department of Nuclear Engineering, University of Dhaka, from September 2013 to date.

Selected Training Record:

1. ASME Boiler & Pressure Vessel Code Section III, Division 1: - Rules for Construction of Nuclear Facility Components, Texas Station, Las Vegas, Nevada, USA, 2007 (KAIST scholarship).
2. KNS-AESJ Joint Summer School on Materials Aging Management for Nuclear Power Systems, Seoul National University, Seoul, Korea, 2007 (KAIST scholarship).
3. Radiation Technology, The University of Western Australia, 2001 (IAEA).
4. Nuclear Safety, Japan International Co-operation Agency, 1999 (JAICA).

Project Work:

1. KAIST-MIT-NEA-C061008, with Changheui Jang et al., Theory and operating manual of “PINTIN-CAM” probabilistic fracture mechanics computer code, supported by the Korea Research Foundation (KRF), Ministry of Knowledge Economy of Korea as a part of the Long-Term Nuclear R&D Program and Second Phase BK21 Program of the Ministry of Education, Science and Technology of Korea.
2. Involve in regulatory licensing review process of Bangladesh Nuclear Power Reactor program.

Contact:

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