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Dr. Yin is a research staff member in the Modeling and Simulation Group of the Computational Sciences and Engineering Division at Oak Ridge National Laboratory. He has over ten years experience in the following areas of engineering analysis: computational fracture mechanics, stress analysis, structural and thermal analyses, solid modeling, engineering design and mechanical testing.

Since 2002, Dr. Yin has worked in the NRC-sponsored Heavy-Section Steel Technology (HSST) program. There he has played an important role in analysis of the Davis-Besse Reactor Pressure Vessel (RPV) head degradation event, and provided pivotal analyses in the development of advanced techniques and codes for *Fracture Analysis of Vessels-Oak Ridge* (FAVOR) computer code. Dr. Yin has also served as one of the lead analysts in carrying out U.S. contributions to several international cooperative projects on advanced fracture mechanics methodology, including European Community network projects NESC IV, VOCALIST, QUAMET and PERFECT.

Dr. Yin has authored or co-authored more than 30 technical reports and journal articles dealing with investigation of the properties of materials for pressure vessels to develop and evaluate ways to predict fracture of structures, development, validation, and application of advanced fracture mechanics technology for the safety assessment of nuclear RPVs. He has a B.S. in mechanical engineering from the University of Science and Technology of China, a M.S. and Ph.D. in mechanical engineering from University of Notre Dame.