

**BILAL M. AYYUB, PhD, PE**  
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## **Brief Biographical Information**

Dr. Ayyub is the President of BMA Engineering, Inc. He is also a Professor and Director of the Center for Technology and Systems Management at the University of Maryland (College Park). He completed his B.S. degree in civil engineering in 1980, and completed both the M.S. (1981) and Ph.D. (1983) in civil engineering at the Georgia Institute of Technology. Dr. Ayyub has an extensive background in uncertainty modeling and analysis, risk-based analysis and design, simulation, and marine structural reliability. He is engaged in research work involving structural reliability, reliability-based design, marine structures, uncertainty modeling and analysis, and mathematical modeling using the theories of probability, statistics, and fuzzy sets. He has completed several research projects that were funded by the U.S. National Science Foundation, Coast Guard, Navy, Air Force Office of Scientific Research, Department of Defense, Army Corps of Engineers, the Maryland State Highway Administration, the American Society of Mechanical Engineers, and several engineering companies. Dr. Ayyub has served the engineering community in various capacities through societies that include ASNE (life member), ASCE (fellow), ASME (fellow), SNAME (fellow), IEEE (senior member), and NAFIPS. He is a member of the ASME Research Committee of Risk Technology, and the ASME Committee on Human Factors. Recently, he chaired the ASCE Committee on the Reliability of Offshore Structures. He also was the General Chairman of the first, second and third International Symposia on Uncertainty Modeling and Analysis that were held in 1990, 1993, and 1995. Currently, he is the chairman of the design philosophy panel of the SNAME Ship Structures Committee. He is the author and co-author of about 350 publications in journals and conference proceedings, and reports. His publications include four textbooks, edited books, and book chapters. Dr. Ayyub is the only triple recipient of the ASNE "Jimmie" Hamilton Award for the best papers in the Naval Engineers Journal in 1985, 1992 and 2000. Also, he received the ASCE "Outstanding Research Oriented Paper" in the Journal of Water Resources Planning and Management for 1987, the NAFIPS K.S. Fu Award for Professional Service in 1995, the ASCE Edmund Friedman Award in 1989, and the ASCE Walter L. Huber Civil Engineering Research Prize in 1997. The U.S. Army Corps of Engineers recognized him for his contributions to the success of the 1995 Corps of Engineers Structural Engineering Conference, Fort Worth District, San Antonio, Texas, 1995. He recently received a Certificate of Appreciation, Research Task Force on Risk-Based Inspection Guidelines, the American Society of Mechanical Engineers, 1998, and a Certificate of Appreciation from the Risk-based Technology Research Committee of the American Society of Mechanical Engineers (ASME) for contribution to several ASME research projects on risk-based inspection of industrial facilities, risk-informed design of mechanical systems, and applications of risk-based technology to U. S. Coast Guard marine systems, 1998. He is a registered Professional Engineer (PE) with the State of Maryland.