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Resume of Edward H. Wu, 1984

Wu, Edward H.

Monterey, California: Naval Postgraduate School

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RESUME OF EDWARD M. WU

Edward M. Wu was born in Hong Kong, in 1938. He attended the University of Illinois at Urbana, Illinois, where he majored in Mechanical Engineering. He received the degree of Bachelor of Science in June 1960. Graduate study followed at the Brown University, Providence, Rhode Island, and the University of Illinois, Urbana where he received the degree of Doctor of Philosophy in Theoretical and Applied Mechanics in 1965. His research was in the field of fracture mechanics applied to steel rocket motor cases and composite motor cases.

Following his graduate studies he joined Bell Telephone Laboratories, Murray Hill, New Jersey, as Member of the Technical Staff investigating composite characterizations and polymer adhesion problems.

In September 1966, he joined the faculty of the University of Illinois, Urbana, Illinois where he taught in the Department of Theoretical and Applied Mechanics and investigated the formulation of fracture mechanics for anisotropic materials and carried out experimental applications to wood and fiber composite materials.

In June 1967, he joined Washington University, St. Louis, Missouri, to participate in a joint university-industry (Washington University-Monsanto) ARPA program on Advance Composites. He established a materials testing laboratory and set up a pioneer system in computer-aided materials testing. In 1968 he joined the faculty and was eventually appointed Professor of Mechanical Engineering in 1973. During this period, he performed theoretical investigations in tensor invariants and failure criterion for anisotropic materials substantiated by a definite data base obtained with computer controller multi-axial testing machine.

Beginning June 1975, he spent eight years at the Lawrence Livermore National Laboratory, Livermore, California. During this period, he established two laboratories, one for mechanics of materials for composites and the other for life testing of composites. Much of the data collected supported statistical modelling and quantification of composite reliability.

In October 1984, he joined the faculty of the Naval Postgraduate School, Monterey, California, where he is teaching in the Department of Aeronautics. His research interest is in the area of certification and acceptance of critical composite structures in aerospace applications.

He is a member of the American Institute of Aeronautics and Astronautics, Pi Tau Sigma, Tau Beta Pi, Sigma Tau and is on the editorial board of the Journal of Composite Materials.

