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## Resume of Robert Eugene Newton, 1981

Newton, Robert Eugene

Monterey, California: Naval Postgraduate School

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## RESUME OF ROBERT EUGENE NEWTON

Robert E. Newton was born in St. Louis, Missouri, in 1917. He attended Washington University in that city, receiving the degrees Bachelor of Science in Mechanical Engineering in 1938 and Master of Science in Mechanics in 1939. In 1951 he was awarded the degree Doctor of Philosophy in Engineering Mechanics by the University of Michigan.

From 1938 until 1941 Dr. Newton was on the faculty of Washington University in the applied mathematics department, first as graduate assistant and then as instructor. During the period 1941 to 1945 he was employed at Curtiss-Wright Corporation and McDonnell Aircraft Corporation serving as stress analyst, vibration and flutter engineer, head of structural methods unit and senior engineer. He returned to Washington University in 1945 as assistant professor of applied mechanics. In 1947 he was promoted to the rank of associate professor.



Since July, 1951, he has been professor of mechanical engineering at the Naval Postgraduate School. From 1953 until 1967 he was chairman of the mechanical engineering department. In 1968-69 he was visiting professor of civil engineering at the University of Wales at Swansea. He served as faculty chairman in 1975-76.

His principal publications and consulting activities have been in the fields of structures and dynamics. Current research is devoted to solution of fluid-structure interaction problems by the finite element method of special concern are effects of underwater shock on naval ships.

He is a member of Tau Beta Pi, Sigma Xi, the American Society for Engineering Education, and the Society for Experimental Stress Analysis. He is also a Fellow of the American Society of Mechanical Engineers and was the 1940 recipient of its Junior Award. He is listed in "American Men of Science," "Who's Who in Engineering," and "Who's Who in America."