



## **Professor William Nachbar (1923 – 2005)**

See:

<http://www.legacy.com/obituaries/nytimes/obituary.aspx?n=william-nachbar&pid=15517555>

Department of Applied Mechanics and Engineering Sciences  
University of California, San Diego, La Jolla, CA 92093, U.S.A.

**Obituary** (from the New York Times, October 28, 2005):

NACHBAR-William. 82, died of cancer on Monday, October 24, 2005, at his home in La Jolla, CA. He was born April 25, 1923 in Brooklyn, NY. He was the eldest of three sons of Daniel and Rosa Nachbar and was predeceased by his brothers, Martin and Edwin. He is survived by his wife Pauline Nachbar, son John Nachbar, daughter-in-law Suzanne Yee, and granddaughter Katherine Nachbar. He will be greatly missed. William Nachbar grew up in New York City and graduated from DeWitt Clinton High School in 1940. He graduated from Cornell University in 1944 and then served in the U.S. Army from 1944 to 1946. He received a Master's degree in mathematics from the Courant Institute of New York University in 1948 and a Ph.D. in applied mathematics from Brown University in 1951. He met his wife Pauline at Brown. He worked at Boeing in Seattle from 1951 to 1955, where he participated in the design of the Boeing 707, the first commercially successful jet airliner. From 1955 to 1961, he was section head of Mechanics and Applied Mathematics at the Research Laboratory of the Lockheed Missile and Space Division in Palo Alto. There, he worked on Polaris, the first missile designed to be launched underwater, from a submarine. In 1961, he joined Stanford University and was promoted to associate professor in 1963. He joined the University of California, San Diego, in 1965 as professor of applied mechanics in newly established Revell College, the first of UCSD's main colleges. He received a Guggenheim fellowship in 1967. He retired from UCSD in 1989. He is best known for his contributions to the study of combustion and to the study of structural mechanics, particularly the theory of shell

structures. He loved camping, fly fishing, snorkeling, and Mozart. And he loved his family. Services will be held October 30, 11:00 A.M. at Mount Hebron Cemetery, Flushing, NY.

**Selected Publications:**

William Nachbar 1959 Discontinuity Stresses in Pressurized Thin Shells of Revolution, Lockheed Missiles & Space Division Report LMSD-48483, Lockheed Aircraft Corporation, Sunnyvale, California.

W. Nachbar 1962 Characteristic Roots of Donnell's Equations with Uniform Axial Prestress, Journal of Applied Mechanics, Vol. 29, 434, June 1962

W. Nachbar and N.J. Hoff, "On the edge buckling of axially compressed circular cylindrical shells", Quarterly Appl. Math., Vol. XX, No. 3, October 1962, p. 267

P. Mann-Nachbar and W. Nachbar 1965 The Preferred Mode Shape in the Linear Buckling of Circular Cylindrical Shells under Axial Compression, Journal of Applied Mechanics, Vol. 32, 793, December 1965

Haftka, R., and Nachbar, W., "Post-Buckling Analysis of an Elastically-Restrained Column," International Journal of Solids and Structures, Vol. 6, No. 7, 1970, pp. 1433-1449.

Haftka, R. T., Mallett, R. H., and Nachbar, W., "Evaluation of a Koiter-type finite element method," International Journal of Solids and Structures, Vol. 7, No. 10, October 1971, pp. 1427-1445.

A. Maewal and W. Nachbar, "A perturbation analysis of mode interaction in postbuckling behavior and imperfection sensitivity", International Journal of Solids and Structures, Vol. 13, No.10, 1977, pp. 937-946

A. Maewal and W. Nachbar, Stable postbuckling equilibria of axially compressed elastic circular cylindrical shells: a finite element analysis and comparison with experiments. J. Appl. Mech. 44.475-481 (1977)