# Dr. Vytas Svalbonas

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**Career:**
Vytas Svalbonas graduated from Cooper Union and New York University, both in New York City with his batchelor of science and masters in structural mechanics. He then went on to Brooklyn Polytechnical to receive his PhD. He started his working career with Grumman Aerospace in analytical methods development for aerospace structures. He had consulting contracts with NASA on the lunar landing and saturn rocket applications. He then moved on to Franklin Institute research labs in Philadelphia in various fields, including failure analysis of mining structures. Vytas Svalbonas is currently the director of Eng Technologies, in communication division worldwide for Koppers-Svedala-Metso in York, Pennsylvania.

**Selected Publications:**
"Unsymmetric Non-linear Second-order Analysis of Orthotropic Shells of Revolution," Grumman Advanced Development Report ADR 02-11-66.1, April 1966.

"Unsymmetric Non-linear First-order Analysis of Multilayered Orthotropic Shells of Revolution," Grumman Advanced Development Report ADR 02-11-66.2, March 1966.

"Unsymmetric Non-linear Analysis of Thick Orthotropic Sandwich Shells of Revolution," Grumman Advanced Development Report ADR 02-11-67.1, Jan. 1967.

"An Automated Method for Shell Analysis," presented as Civil Engineering Graduate Seminar at the Polytechnic Institute of Brooklyn, New York, April 1967.

"Arbitrary Curved Triangular Shell Elements," Grumman Advanced Development Report ADR 02-11-67.3, Nov. 1967.

"Analysis of Rings Under Arbitrary Loads," Grumman Advanced Development Report ADR 02-11-67.4, Dec. 1967.

"User's Manual for 'STARS' – Shell Theory Automated for Rotational Structures – IBM 360/75 Digital Computer Program," Grumman Advanced Development Report ADR 02-11-68.1, Feb. 1968.

"Matrix Methods in Shell Analysis," presented at Colloquium of the Department of Civil Engineering and Applied Mechanics, The Cooper Union of Science and Art, New York City, March 1968.

"Numerical Integration and Finite Element Methods for Shell Analysis," presented as Aerospace Graduate Numerical Methods Seminar at the Polytechnic Institute of Brooklyn, New York, May 1969.

"Numerical Analysis of Shells" Vol.I "Unsymmetric Analysis of Orthotropic Reinforced Shells of Revolution," NASA CR-61299, Sept. 1969. Vol.II "User's Manual for STARS II – Shell Theory Automated for Rotational

Structures – II - Digital Computer Program," NASA CR-61300, Sept. 1969. Vol. III "Engineer's Program Manual for STARS II – Shell Theory Automated for Rotational Structures – II – Digital Computer Program," NASA CR-61301, Sept. 1969. [Vols. I and II also released as Grumman Future Systems Reports FSR-AD2-01-68.4 and FSR-AD2-01-68.5, Aug. 1968. Vol. IV for UNIVAC 1108 released at NASA MSFC, May 1970.]

"A Procedure for Extending the STARS II Digital Computer Program to Shell Buckling Analysis," Grumman Advanced Development Report AND 02-01-71.1, May 1971.

Participant of ARB review board for N.A.S.A. Space Vehicle Design Criteria Monograph – "Discontinuity Stresses in Metallic Pressure Vessels," NASA SP-8083, Nov. 1971.

"Linear and Nonlinear Analysis of Shells," Polytechnic Institute of Brooklyn PIBAL Report 72- 20, May 1972. (Also released as Air Force Scientific Report AFOSR-TR-72-1110.

"Buckling and Vibration Analysis for Stiffened Orthotropic Shells of Revolution," AIAA Journal, Vol. 10, No. 7, July 1972.

"Numerical Analysis of Stiffened Shells of Revolution," 7 volumes, NASA CR-2273, Sept. 1973.

"Static, Stability and Dynamic Analysis of Shells of Revolution by Numerical Integration – A Comparison," Nuclear Engineering and Design, Vol. 27, 1974. Also reprinted in ASME "Pressure Vessels and Piping: A Decade of Progress," Vol. IV, 1976.

V. Svalbonas, "Transient dynamic and inelastic analysis of shells of revolution — a survey of programs", Nuclear Engineering and Design, Vol. 37, No. 1, April 1976, pp. 73-93

V. Svalbonas and A. Kalnins, "Dynamic buckling of shells: Evaluation of various methods", Nuclear Engineering and Design, Vol. 44, No. 3, December 1977, pp. 331-356

V. Svalbonas and J. Key, "Static, stability, and dynamic analysis of shells of revolution by numerical integration — A comparison", Nuclear Engineering and Design, Vol. 27, No.1, March 1974, pp. 30-45