ALEXANDER TESSLER
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EDUCATION

Ph.D. (1979), Structural Mechanics, **University of California, Los Angeles**
Engineer's Degree (1978), **University of California, Los Angeles**
M.S. (1976), Structural Mechanics, **University of California, Los Angeles**
B.S. (1972), Structural Engineering, **Kiev National University of Construction and Architecture, formerly Kiev Civil Engineering Institute, Ukraine**

EXPERIENCE

University Teaching

Visiting Professor (March-June, 2019); **Politecnico di Torino, Turin, Italy**
Lectured a PhD course and conducted research in laminated composite and sandwich aerospace structures and inverse finite element methods for application to structural health management.

Adjunct Professor, taught graduate-level courses: Northeastern (1986–1991), Old Dominion (1992–1997), George Washington (1992–2000), and University of Virginia (2001).

NASA Langley Research Center, VA

Distinguished Research Associate (2017–present)
Formulated advanced analysis methods for multilayered and sandwich composite structures and inverse finite-element methods for structural health management.

Senior Research Scientist (1991–2017)
Led the development of advanced computational methods for aerospace structural analysis and design. Formulated, conducted and directed the development of innovative practical methods which reduce design cycle time and enable comprehensive early design trade-off studies to dramatically decrease costs through informed early design decisions.

- Credited with development of analytic and finite element methods used in commercial and NASA software: AUTODESK, STAGS, and COMET-AR
- Consultant to MSFC for Space Station Node anomaly and evaluation of US Lab module.

U.S. Army Materials Technology Laboratory, Watertown, MA

Mechanical Engineer (1983–1991)
Formulated, managed, and conducted basic and applied structural integrity programs involving analytical and computational mechanics research.

Northrop Corporation, Hawthorne, CA

Senior Engineer (1980–1983)
Developed analytical and computational methods for linear and nonlinear composite structures of advanced fighter aircraft.

PUBLICATIONS

Contributed over two hundred publications that include refereed journal articles, book chapters, technical reports and conference papers. Presented numerous invited and keynote lectures at U.S. and international symposia, industry workshops, U.S. and European universities.

AWARDS/PROFESSIONAL RECOGNITION NASA Floyd Thompson Fellow. Received numerous U.S. Army and NASA Awards. Biography published in Marquis Who's Who in Science and Engineering; Who's Who in America, and Who's Who in the World. Google Scholar: https://scholar.google.com/citations?hl=en&user=31VAQ20AAAAJ

Citizenship: U.S.A.

Date: May 13, 2022 ALEXANDER TESSLER