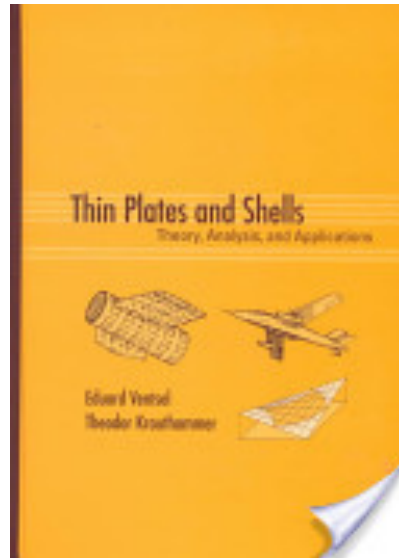**Professor Theodor Krauthammer**

Eduard Ventsel and Theodor Krauthammer, Thin plates and shells: theory, analysis, applications, CRC Press, 2001, 666 pages

See:
http://www.engr.psu.edu/cde/Short/MPS_course/newpage/bios/bio-ted.html
http://65.54.113.26/Author/13309899/theodor-krauthammer

Department of Civil and Environmental Engineering
The Pennsylvania State University, University Park, PA 16802, USA

Biography:
He obtained his Ph.D. in Civil Engineering from the University of Illinois at Urbana-Champaign and has B.Sc. and M.Sc. degrees in Mechanical Engineering. His main research and technical activities are directed at structural behavior under severe dynamic loads, including considerations of both survivability and fragility aspects of facilities subjected to blast, shock and impact. He has specialized in the nonlinear behavior of structures (including medium-structure interaction) under seismic or impulsive loads and the development of numerical simulations and testing techniques for structural assessment. His work has included the development of design recommendations for enhancing structural performance, physical security and safety of buildings, facilities and systems. He conducted numerical simulation of observed structural response and experimental studies of structural behavior. His research has been supported by the National Science Foundation, US Air Force, US Army, Defense Special Weapons Agency, US Navy, etc. He is a Fellow of the American Concrete Institure (ACT) and a member of the American Society of Civil Engineers (ASCE). He serves on nine technical committees of ACI, ASCE and the Department of Defense Explosive Safety Board (DDESB). Dr. Krauthammer has written more than 240 reseasrch publications and has been invited to lecture in the USA and abroad. He has been a conusultant to industry and governments in the USA and abroad.

Selected Publication:
Eduard Ventsel and Theodor Krauthammer, Thin plates and shells: theory, analysis, applications, CRC Press, 2001, 666 pages

ABSTRACT: Presenting recent principles of thin plate and shell theories, this book emphasizes novel analytical and numerical methods for solving linear and nonlinear plate and shell dilemmas, new theories for the design and analysis of thin plate-shell structures, and real-world numerical solutions, mechanics, and plate and shell models for engineering applications. It includes computer processes for finite difference, finite element, boundary element, and boundary collocation methods as well as other variational and numerical methods. It also contains end-of-chapter examples and problem/solution sets, a catalog of solutions for cylindrical and spherical shells, and tables of the most commonly used plates and shells.