ALAN ZEHNDER – COMPLETE PUBLICATIONS LIST
Updated 5/5/2022

BOOKS:


BOOK CHAPTERS:


JOURNAL PUBLICATIONS:


42. Woo Yong Jeong; Christopher James Earls; William D Philpot; Alan T Zehnder, “Inverse thermographic characterization of optically unresolvable through cracks in thin metallic plates,” *Mechanical Systems and Signal Processing*, 27, 634-650 (2012).


REPORTS:


CONFERENCE PROCEEDINGS:


PAPERS PRESENTED (without conference proceedings):


41. M.T.A. Saif, C.Y. Hui and Alan T. Zehnder, "Film/Substrate Interface Shear Stress Induced by Non-
Uniform Heating," 1992 ASME Applied Mechanics, Materials and Aerospace Summer Meeting,
Scottsdale, Arizona, April 28-May 1, 1992.

42. Alan T. Zehnder and Jacob A. Kallivayalil, "Temperature Measurements in Dynamic Fracture," 27th

43. Alan T. Zehnder and Ares J. Rosakis, "Temperature Fields Generated During Dynamic Crack Growth
in Metals: High Resolution Measurements by Means of High Speed Infrared Sensors," Army
Symposium of Solid Mechanics: Mechanics of Engineered Materials and Applications, Newport,

44. Alan T. Zehnder and Ares J. Rosakis, "Dynamic Measurement of J Integral in Ductile Materials using
the Optical Method of Caustics," 12th Canadian Congress of Applied Mechanics, Ottawa, Ontario,

45. Alan T. Zehnder and Ares J. Rosakis, "Basic Experiments on the Dynamic Fracture Initiation and
of Applied Mechanics, Austin, Texas, June 16-20, 1986.

46. Alan T. Zehnder, Ares J. Rosakis, and R. Narasimhan, "On the Application of Reflected Caustics to the
Measurement of the J Integral in Ductile Fracture," 10th U.S. National Congress of Applied
Mechanics, Austin, Texas, June 16-20, 1986.

**PATENT, APPLICATIONS AND INVENTION DISCLOSURES**


2. M. Zalaludinov, A. Olkhovets, A. Zehnder, B. Ilie, D. Czaplewski, L. Sekaric, J. Parpia, and

   nanomechanical resonant structures in air,” invention disclosure, June 2002.