PREFACE

Professor Eric Reissner

On August 18–20, 1983, a group of friends and collaborators† of Professor Eric Reissner got together with Eric for a research workshop on elastic structures at the University of British Columbia, Vancouver, Canada. The gathering was for the occasion of Eric's seventieth anniversary. Eric himself reported at the Workshop on a variational principle in geometrically nonlinear elasticity, one of his current research projects. For an indication of the scope of Eric's research activities since his becoming Professor Emeritus in 1978, a list of his publications since that time (supplementing an earlier list in *Mechanics Today*, Vol. 5, Ed. S. Nemat-Nasser, Pergamon Press, 1980, pp. 561–569) is appended to this preface.

After the Vancouver Workshop, several of the participants independently submitted papers for publication in the International Journal of Solids and Structures. George Herrmann, the Editor-in-Chief of the Journal kindly agreed to put these papers and a few others in a special issue of the Journal for the occasion of Eric's seventieth anniversary. For the project to be manageable, only papers by Eric's former students at the Vancouver Workshop and by the two editors (George Herrmann and Sia Nemat-Nasser) responsible for the publication of the two collections dedicated to Eric were included in this special issue. We take this opportunity to record in print how much we, the participants of the Vancouver Workshop, value our professional association and interaction with you, Eric, and our personal relation with you and Johanna, a feeling already conveyed to you in the spoken words at the Vancouver Workshop.

Frederic Y. M. Wan
Seattle, Washington
May, 1984

APPENDIX

List of Publications of Eric Reissner for 1978–1983

On bounds for the torsional stiffness of shafts of varying circular cross section *J. Elasticity* **8**, 221–225 1978.

A note on finite deflections of circular ring plates *J. Appl. Math. Phys.* (ZAMP) **29**, 698–703 1978.

Two and three-dimensional results for rotationally symmetric deformations of circular cylindrical shells *Int. J. Solids Structures* **14**, 905–924 1978 (with S. Nair).

Some considerations on the problem of torsion and flexure of prismatical beams *Int. J. Solids Structures* **15**, 41–53 1979.

On lateral buckling of end-loaded cantilever beams *J. Appl. Math. Phys.* (ZAMP) **30**, 31–40 1979.

Note on a nontrivial simple example of higher-order one-dimensional beam theory *J. Appl. Mech.* **46**, 337–340 1979.

Note on the effect of transverse shear deformation in laminated anisotropic plates *Computer Meth. Appl. Mech. Engng* **20**, 203–209 1979.

On the transverse twisting of shallow spherical ring caps *J. Appl. Mech.* **47**, 101–105 1980.

On the effect of a small circular hole on states of uniform membrane shear in spherical shells *J. Appl. Mech.* **47**, 430–431 1980.

On the influence of a rigid circular inclusion on the twisting and shearing of a shallow spherical shell *J. Appl. Mech.* **47**, 586–588 1980.

On torsion and transverse flexure of orthotropic elastic plates *J. Appl. Mech.* **47**, 855–860 1980.

On the analysis of first and second-order shear deformation effects for isotropic elastic plates *J. Appl. Mech.* **47**, 959–961 1980.

On the effect of shear center location on the values of axial and lateral cantilever buckling loads for singly symmetric cross-section beams *J. Appl. Math. Phys.* (ZAMP) **32**, 182–188 1981.

On finite pure bending of curved tubes *Int. J. Solids Structures* **17**, 839–844 1981.

On a one-dimensional theory of finite torsion and flexure of anisotropic elastic plates *J. Appl. Mech.* **48**, 601–605 1981.

On finite deformations of space-curved beams *J. Appl. Math. Phys.* (ZAMP) **32**, 734–744 1981.

A note on bending of plates including the effects of transverse shearing and normal strains *J. Appl. Math. Phys.* (ZAMP) **32**, 764–767 1981.

On the derivation of two-dimensional strain displacement relations for small finite deformations of shear-deformable plates *J. Appl. Mech.* **49**, 232–234 1982.

Effects of a rigid circular inclusion on states of twisting and shearing in shallow spherical shells *J. Appl. Mech.* **49**, 442–443 1982 (with J. E. Reissner).

A note on the linear theory of shallow sheardeformable shells *J. Appl. Math. Phys.* (ZAMP) **33**, 425–427 1982 (with F. Y. M. Wan).

On lateral beam buckling and finite-deflection plate theory *Stability in the Mechanics of Continua*, Proc. IUTAM Symposium, Nümbrecht 1981, pp. 23–24 1982.

Some remarks on the problem of column buckling *Ingenieur-Archiv* **52**, 115–119 1982.

A note on two-dimensional finite-deformation theories of shells *Int. J. Non-Linear Mechanics* **17**, 217–221 1982.

Stress couple concentrations for cylindrically bent plates with holes or rigid inclusions *J. Appl. Mech.* **50**, 85–87 1983.

On a one-dimensional formulation of the problem of torsion and flexure of shear deformable plates *J. Appl. Mech.* **50**, 225–227 1983.

Further considerations on the problem of torsion and flexure of prismatical beams *Int. J. Solids Structures* **19**, 385–392 1983.

A twelfth order theory of transverse bending of transversely isotropic plates *Z. f. ang. Math. Mech.* **63**, 285–289 1983.

On axial and lateral buckling of end-loaded anisotropic cantilever beams *J. Appl. Math. Phys.* (ZAMP) **34**, 450–457 1983 (with J. E. Reissner).

On a simple variational analysis of small finite deformations of prismatical beams *J. Appl. Math. Phys.* (ZAMP) **34**, 642–648 1983.

On some problems of buckling of prismatical beams under the influence of axial and transverse loads *J. Appl. Math. Phys.* (ZAMP) **34**, 649–667 1983.