
THE IUTAM SYMPOSIUM ON MECHANICS OF DAMAGE AND FATIGUE

Technion-Israel Institute of Technology, Haifa, and at Tel Aviv University, Tel Aviv,
Israel, 1-4 July 1985.

For information please contact:

PROF. S. R. BODNER,
Faculty of Mechanical Engineering,
Technion, Haifa 32000,
Israel.

PROF. Z. HASHIN,
Faculty of Engineering,
Tel Aviv University,
Tel Aviv 69978,
Israel.

IUTAM SYMPOSIUM ON INELASTIC BEHAVIOR OF PLATES AND SHELLS RIO DE JANEIRO AUGUST 5-9, 1985

SCOPE

The scope of the Symposium is to gather a limited number of participants to exchange ideas and discuss relevant topics and novel results on mechanical problems related to the inelastic behavior of plates and shells. It is expected the contributions to encompass theoretical analysis, numerical methods and experimental results related to the above mentioned mechanical problems. All types of inelastic materials (plastic, viscoelastic, elastic-plastic, elastic-visco-plastic) are assumed to fall within the scope of the Symposium.

DOMAINS OF INTEREST

The following topics describe concisely the fields of interest:

- Foundations of inelastic theories of plates and shells. Constitutive equations derived from a three-dimensional approach.
- Methods of solution of the inelastic shell and plate equations.
- Novel solutions regarding limit analysis, elastic-plastic response, shakedown, optimization, low-cycle fatigue, inelastic buckling, internal damage, crack growth, creep damage, residual stresses.
- Post-yield behavior including post-buckling configurations. Relevant problems involving fluid-structure interactions. Impact and dynamics of inelastic deforming structures (plates and shells).

Prof. Luiz Bevilacqua
Department of Mechanical Engineering
PUC/RJ
Rua Marquês de S.Vicente, 225
22453 - RIO DE JANEIRO
BRAZIL

Prof. A. Sawczuk
Centre International
des Sciences Mécaniques
Palazzo del Torzo
Piazza Garibaldi, 18
I-33100 - UDINE
ITALY