

Professor Seishi Yamada (1952 – 2013)

See:

<http://researchmap.jp/read0019064/?lang=english>

Department of Architecture and Civil Engineering
Toyohashi University of Technology, Toyohashi 441, Japan

Education:

Doctor of Engineering, Tohoku University
Master of Engineering, Tohoku University

Prizes:

2000 The Prize of Architectural Institute of Japan
1992 Recipient Excellent Paper Award, 1992, Architectural Institute of Japan
2002 The Prize of The Japan Reinforced Plastics Society

Committee Career:

1975 Architectural Institute of Japan Member
1990 International Society for Shell and Spatial Structures Member
1994 American Society of Civil Engineers Member
2000 Structural Engineering Institute of ASCE Charter Member
1995 International Association for Bridge and Structural Engineering Member

Research Projects:

Nonlinear Instability Mechanics of Shells
Structural Design of Large-Spanned Structures
Fiber Reinforced Polymer Structures
Structural Health Monitoring using Fiber Optic Sensors (Project Year: 2000)
Seismic Responses of Vibration Controlled Buildings (Project Year: 2001)

J.G.A. Croll writes in his 2015 paper, “Lower Bound Buckling Loads for Design of Laminate Composite Cylinders” by James G.A. Croll and Hongtao Wang, 3rd Int. Conference on Buckling and Postbuckling Behaviour of Composite Laminated Shell Structures:

“We would also like to record our very sincere indebtedness to Professor Seishi Yamada whose work has been seminal in validating the RSM [Reduced Stiffness Method]. It is a tragedy that with his death last year we have lost a colleague who has made such a major contribution to our understanding of shell buckling.”

Selected Publications:

Seishi Yamada, James G A Croll, and Nobuhisa Yamamoto, “Nonlinear Buckling of Compressed FRP Cylindrical Shells and Their Imperfection Sensitivity”, J App Mech 75(4):041005-10 (2008)

Manabu Uchiyama and Seishi Yamada, “Nonlinear Buckling Simulations of Imperfect Shell Domes by Mixed Finite Elements”, j eng mech 129(7):707-714 (2003)

Seishi Yamada, Akiko Takeuchi, ... Kazutoshi Tsutsumi, "Imperfection-Sensitive Overall Buckling of Single-Layer Lattice Domes", *j eng mech* 127(4):382-386 (2001)

Seishi Yamada and J G A Croll, "Contributions to Understanding the Behavior of Axially Compressed Cylinders", *J App Mech* 66(2):299-309 (1999),

Seishi Yamada and J G A Croll, "Buckling and Post-buckling Characteristics of Pressure-Loaded Cylinders", *J App Mech* 60(2):290-299 (1993),

Seishi Yamada and James G A Croll, "Buckling Behavior of Pressure Loaded Cylindrical Panels", *j eng mech* 115(2):327-344 (1989),