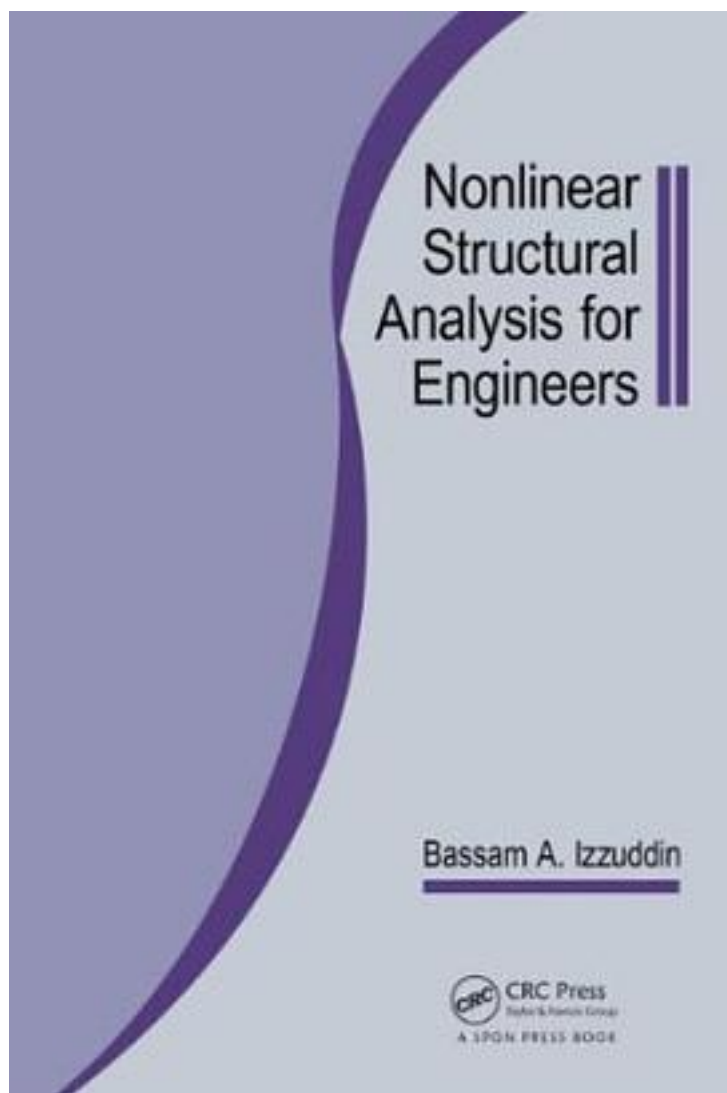


# Nonlinear Structural Analysis for Engineers



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Research - CSM Group Website

Advanced nonlinear finite element analysis

Modelling of structures subject to extreme loading (blast, impact, fire, earthquakes)

Simplified design-oriented structural modelling

Robustness and progressive collapse assessment of tall buildings

Multi-scale objective modelling of reinforced concrete structures

Multi-scale modelling of masonry structures

Risk assessment of structures subject to extreme loading

Soil-structure interaction

Administration

Director of Master of Science Programme

Chair of Departmental IT Committee

Overall Coordinator of Computational Methods Teaching in new MEng programme

Consultancy

Development of detailed/simplified computational models

Finite element analysis

Dynamic structural analysis

Structural assessment for extreme static/dynamic loading (blast, fire, earthquakes)

Developed Software - ADAPTIC

Advanced nonlinear structural analysis program

Geometric and material nonlinearities

Novel frame, plate, membrane and shell elements

Steel, reinforced concrete and composite structures

Extreme loading (static, dynamic and fire)

Robust nonlinear solution procedures

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Mechanics

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