Nonlinear Continuum Mechanics for Finite Element Analysis

By Dr Javier Bonet, Dr Richard D. Wood

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The first edition of this successful text considered nonlinear geometrical behavior and nonlinear hyperelastic materials, and the numerics needed to model such phenomena. By presenting both nonlinear continuum analysis and associated finite element techniques in one, Bonet and Wood provide, in the new edition of this successful text, a complete, clear, and unified treatment of these important subjects. New chapters dealing with hyperelastic plastic behavior are included, and the authors have thoroughly updated the FLagSHyP program, freely accessible at www.flagshyp.com.

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About the Author
Javier Bonet is a Professor of Engineering and the Deputy Head of the School of Engineering at Swansea University, and a visiting professor at the Universitat Politecnica de Catalunya in Spain. He has extensive experience of teaching topics in structural mechanics, including large strain nonlinear solid mechanics, to undergraduate and graduate engineering students. He has been active in research in the area of computational mechanics for over 25 years and has written over 60 papers and over 70 conference contributions on many topics within the subject and given invited, keynote and plenary lectures at numerous international conferences.

Richard D. Wood is an Honorary Research Fellow in the Civil and Computational Engineering Centre at Swansea University. He has over 20 years experience of teaching the course Nonlinear Continuum Mechanics for Finite Element Analysis at Swansea University, which he originally developed at the University of Arizona and also taught at IIT Roorkee, India and the Institute of Structural Engineering at the Technical University in Graz. Dr Wood's academic career has focused on finite element analysis, and he has written over 60 papers in international journals, and many chapter contributions, on topics related to nonlinear finite element analysis.

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