



Nonlinear Continua (Computational Fluid and Solid Mechanics)

Eduardo N. Dvorkin, Marcela B. Goldschmit

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
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This book develops a modern presentation of Continuum Mechanics, oriented towards numerical applications in the fields of nonlinear analysis of solids, structures and fluids. Kinematics of the continuum deformation, including pull-back/push-forward transformations between different configurations; stress and strain measures; objective stress rate and strain rate measures; balance principles; constitutive relations, with emphasis on elasto-plasticity of metals and variational principles are developed using general curvilinear coordinates. Being tensor analysis the indispensable tool for the development of the continuum theory in general coordinates, in the appendix an overview of tensor analysis is also presented. Embedded in the theoretical presentation, application examples are developed to deepen the understanding of the discussed concepts. Even though the mathematical presentation of the different topics is quite rigorous; an effort is made to link formal developments with engineering physical intuition. This book is based on two graduate courses that the authors teach at the Engineering School of the University of Buenos Aires and it is intended for graduate engineering students majoring in mechanics and for researchers in the fields of applied mechanics and numerical methods. VIII Preface I am grateful to Klaus-Jurgen Bathe for introducing me to Computational Mechanics, for his enthusiasm, for his encouragement to undertake challenges and for his friendship.

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