



Non-Linear Finite Element Analysis in Structural Mechanics

By Wilhelm Rust

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This monograph describes the numerical analysis of non-linearities in structural mechanics, i.e. large rotations, large strain (geometric non-linearities), non-linear material behaviour, in particular elasto-plasticity as well as time-dependent behaviour, and contact. Based on that, the book treats stability problems and limit-load analyses, as well as non-linear equations of a large number of variables. Moreover, the author presents a wide range of problem sets and their solutions. The target audience primarily comprises advanced undergraduate and graduate students of mechanical and civil engineering, but the book may also be beneficial for practising engineers in industry.

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Editorial Review

Review

“The goal of the book under review is to show how to implement numerical solutions for nonlinear problems in mechanics, based on finite element methods. ... There are several worked out examples, figures, tables, and even commented Fortran codes. ... This book might be useful for someone with an engineering background willing to skip the mathematical aspects of nonlinear mechanics and who wants to grasp a broader overview of what sort of numerical techniques might be useful in applications.” (Alexandre L. Madureira, Mathematical Reviews, March, 2016)

From the Back Cover

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