



Finite Element Analysis of Parts with SolidWorks Simulation 2013

Cyrus Raoufi Ph.D. P.Eng.

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This textbook is intended to cover the fundamentals of the Finite Element Analysis (FEA) of mechanical components and structures using the SolidWorks Simulation®. It is written primarily for the engineering students, engineers, technologist and practitioners who have little or no work experience with SolidWorks Simulation. It is assumed that the readers are familiar with the fundamentals of the strength of materials as offered in an introductory level course in a typical undergraduate engineering program. However, the basic theories and formulas have been included in this text as well. This textbook can be adopted for an introductory level course in Finite Element Analysis offered to students in mechanical and civil engineering and engineering technology programs. The Direct Stiffness Method is used to develop the bar, truss, beam and frame elements. Both analytical and simulation solutions are presented through examples and tutorials to ensure that readers understand the fundamentals of FEA and the simulation software.

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