



# **Up and Running with Autodesk Inventor Simulation 2011, Second Edition: A step-by-step guide to engineering design solutions**

*Wasim Younis*

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# Up and Running with Autodesk Inventor Simulation 2011, Second Edition: A step-by-step guide to engineering design solutions

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## **Up and Running with Autodesk Inventor Simulation 2011, Second Edition: A step-by-step guide to engineering design solutions** Wasim Younis

Up and Running with Autodesk Inventor Simulation 2011 provides a clear path to perfecting the skills of designers and engineers using simulation inside Autodesk Inventor. This book includes modal analysis, stress singularities, and H-P convergence, in addition to the new frame analysis functionality.

The book is divided into three sections: dynamic solution, stress analysis, and frame analysis, with a total of nineteen chapters. The first chapter of each section offers an overview of the topic covered in that section. There is also an overview of the Inventor Simulation interface and its strengths, weaknesses, and workarounds. Furthermore, the book emphasizes the joint creation process and discusses in detail the unique and powerful parametric optimization function.

This book will be a useful learning tool for designers and engineers, and a source for applying simulation for faster production of better products.

- Get up to speed fast with real-life, step-by-step design problems-3 new to this edition!
- Discover how to convert CAD models to working digital prototypes, enabling you to enhance designs and simulate real-world performance without creating physical prototypes
- Learn all about the frame analysis environment-new to Autodesk Inventor Simulation 2011-and other key features of this powerful software, including modal analysis, assembly stress analysis, parametric optimization analysis, effective joint creation, and more
- Manipulate and experiment with design solutions from the book using datasets provided on the book's companion website (<http://www.elsevierdirect.com/v2/companion.jsp?ISBN=9780123821027>) and move seamlessly onto tackling your own design challenges with confidence
- New edition features enhanced coverage of key areas, including stress singularities, h-p convergence, curved elements, mechanism redundancies, FEA and simulation theory, with hand calculations, and more

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