



# Working with ANSYS A Tutorial Approach

By Divya Zindani, Apurba Kumar Roy, Kaushik Kumar

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The essence of this book is the innovative approach used to learn ANSYS software by imitation, i.e. using the examples provided in this book. The primary aim of this book is to assist in learning the use of the ANSYS software through examples taken from various areas of engineering. An attempt has been made to provide the readers with a comprehensive cross section of analysis types, in order to provide a broad choice of examples to be imitated in one's own work. This book is exclusively structured around ANSYS, and no other finite element (FE) software currently available is considered. The book is divided into four sections. Section I introduces the readers to the brief overview of ANSYS. Section II deals with the APDL part of ANSYS. Section III concentrates on ANSYS using Workbench. It contains tutorials on problems solved using Workbench. Section IV deals with cases of CFD / CFX problems solved using ANSYS. Chapter 20 provides a brief overview of ANSYS CFX. Chapter 21 consists of illustrations to help users use the CFX part of ANSYS in a hassle-free manner. Salient Features: Provides a variety of solved problems using APDL. The non-linear structural analysis part is explained with real-life examples. A chapter on Composites, which in recent times have been used extensively in aircraft structures, automobiles, sporting goods, and many consumer products, is dealt with. The text is well supported by illustrations for a more clear understanding of all the sections of ANSYS.

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### **About the Author**

Divya Zindani, (BE, Mechanical Engineering, Rajasthan Technical University, Kota), presently pursuing M.E. (Design of Mechanical Equipment, BIT Mesra). He has over 2 years of Industrial experience. His areas of interest are optimization, product and process design, CAD/CAM/CAE and rapid prototyping. He has 1 patent, 5 international journal and 4 international conference publications to his credit. Apurba Kumar Roy, B. E. (Mechanical Engineering, REC (Now NIT), Jaipur), M.E. (Mechanical Engineering, Jadavpur University, Kolkata) and PhD (Engineering IIT Kharagpur), is an Associate Professor at the Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, India. He has over 27 years of teaching, research and industrial experience. His areas of interest are Fluid Dynamics, Turbo machines, Multiphase Flow, CFD, Optimization and Non-conventional Energy, Direct Energy Conversion. He has 1 book chapter, 27 international journal, 5 international and 15 national conference publications to his credit. He is on the editorial board and review panel of 1 international journal of repute. Kaushik Kumar, B.Tech (Mechanical Engineering, REC (Now NIT), Warangal), MBA (Marketing, IGNOU) and Ph.D (Engineering, Jadavpur University), is presently an Associate Professor in the Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, India. He has 14 years of teaching & research and over 11 years of industrial experience in a manufacturing unit of global repute. His areas of teaching and research interest are CAD / CAM, Quality Management Systems, Optimization, Non-conventional Machining, Rapid Prototyping and Composites. He has 9 patents, 2 books, 8 book chapters, 96 international journal publications, 18 international and 8 national conference publications to his credit. He is on the editorial board and review panel of 8 international and 1 national journal of repute. He has been felicitated with many awards and honours.

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