



SolidWorks Simulation 2016 Black Book

Matt Weber, Gaurav Verma

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The **SolidWorks Simulation 2016 Black Book**, is written to help professionals as well as learners in performing various tedious jobs in Finite Element Analysis. The book follows a step by step methodology. This book explains the background work running behind your simulation analysis screen. The book covers almost all the information required by a learner to master the SolidWorks Simulation. The book starts with basics of FEA, goes through all the simulation tools and ends up with practical examples of analysis. Chapters on manual FEA ensure the firm understanding of FEA concepts through SolidWorks Simulation. The book contains our special sections named “Why?”. We have given reasons for selecting every option in analysis under the “**Why?**” sections. The book explains the **Solver selection**, iteration methods like **Newton-Raphson method** and integration techniques used by SolidWorks Simulation for functioning. A detailed view of **p-adaptive and h-adaptive meshing** is discussed in the book. Some of the salient features of this book are :

In-Depth explanation of concepts

Every new topic of this book starts with the explanation of the basic concepts. In this way, the user becomes capable of relating the things with real world.

Topics Covered

Every chapter starts with a list of topics being covered in that chapter. In this way, the user can easily find the topic of his/her interest easily.

Instruction through illustration

The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively. There are about 900 illustrations that make the learning process effective.

Tutorial point of view

The book explains the concepts through the tutorial to make the understanding of users firm and long lasting. Each chapter of the book has tutorials that are real world projects.

“Why?”

The book explains the reasons for selecting options or setting a parameters in tutorials explained in the book.

Project

Free projects and exercises are provided to students for practicing.

For Faculty

If you are a faculty member, then you can ask for video tutorials on any of the topic, exercise, tutorial, or concept.

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Nathan Pope:

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