



# Finite Element Analysis Concepts: Via SolidWorks

*By Akin John Edward*

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## **Finite Element Analysis Concepts: Via SolidWorks** By Akin John Edward

Young engineers are often required to utilize commercial finite element software without having had a course on finite element theory. That can lead to computer-aided design errors.

This book outlines the basic theory, with a minimum of mathematics, and how its phases are structured within a typical software. The importance of estimating a solution, or verifying the results, by other means is emphasized and illustrated. The book also demonstrates the common processes for utilizing the typical graphical icon interfaces in commercial codes. In particular, the book uses and covers the widely utilized SolidWorks solid modeling and simulation system to demonstrate applications in heat transfer, stress analysis, vibrations, buckling, and other fields. The book, with its detailed applications, will appeal to upper-level undergraduates as well as engineers new to industry.

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## **Finite Element Analysis Concepts: Via SolidWorks By Akin John Edward Bibliography**

- Sales Rank: #1297475 in Books
- Published on: 2010-08-06
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .82" w x 6.00" l, 1.45 pounds
- Binding: Hardcover
- 348 pages

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## **Editorial Review**

From the Inside Flap

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