

CAE Software for Structural Dynamics

As part of our expanded coverage of Computer-Aided Engineering, ENR presents an overview of CAE software for structural dynamics currently available to experimentalists and analysts. Though it is neither a comprehensive review nor a comparative comparison, it is our hope that this "Best Book" will help introduce our readers to many of the CAE tools for this specific application that are available.

Listings are in alphabetical order by company name. This overview was compiled from information provided by selected software users, software suppliers, suppliers' websites and product literature, as well as the University of Illinois at Urbana-Champaign's National Center for Supercomputing Applications (NCSA) software website, <http://www.ncsa.uiuc.edu/Software/Structural/SoftwareIndex.html>.

For complete information on any of the software products listed, we encourage you to go the web sites of the suppliers and contact their sales representatives. It is not possible to cover all the many features and applications offered by these products in this brief overview. For example, ANSYS contains over 1 million lines of code and many pages of their web site are required to adequately describe the product.

Product Types

The programs for structural dynamics listed in the Software Tables are categorized into five main types:

1. Finite Element Analysis. FEA codes that solve a wide variety of engineering problems. They can model many different phenomena, including the applications that are addressed in this review — analytical modal analysis, linkage of substructures, linear and nonlinear structural response and transient dynamic response.

2. Experimental Modal Analysis. Programs that use experimental forced or free-vibration vibration measurements to generate a structural model in terms of modal parameters including mode shapes, natural frequencies and damping.

3. Modal Correlation and Updating Tools. Software tools specifically designed to compare two structural models with the general intent of improving the dynamic performance of

design of a detailed analytical model so that it properly reflects observations made from verification experiments.

4. Hybrid Experimental/Test Dynamic Modeling. Software specifically designed to build a system dynamics model from multiple component models that may be either purely analytical or test-based.

5. Other Dynamic Modeling Software. Software that can build structural dynamics models and simulations using analytical methods other than finite elements.

User Focus

Software suppliers provide products that target almost every level of experience and application. The Software Tables include a column that categorizes each product's user focus into three classes:

1. User of CAE/Analysis software
2. User of CAE (Computer-Aided Testing) software
3. User of CAE/Testing software.

Pricing

The CAE Software Tables include a column of typical software cost/seat. The pricing of CAE software by suppliers is a complex formula that may involve such factors as the number of seats needed by a given customer, the software modules that are ordered, the usage history, special library package arrangements, site licensing and maintenance contracts. Actual cost of a software package to a given customer may vary substantially from the prices listed in the tables and suppliers' sales representatives need to be consulted for actual licensing and pricing quotations.

Most of the suppliers of CAE software offer special student versions that are potential packages but are limited to a maximum number of elements and nodes. These versions are substantially lower in cost compared to full-function versions, but are restricted for educational purposes. **ENR**

Send comments and suggestions on this new software review service to enr@mcgraw-hill.com.

Company	Product Name	Type	Features	User Focus	Cost/Seat
ABAQUS, Inc. 401.227.4200 www.abaqus.com	ABAQUS	1	Static and dynamic stress analysis with linear and nonlinear material models, acoustic, coupled structural-acoustic.	1	Contact Vendor
ALGOR, Inc. 412.867.2700 www.ALGOR.com	Professional Multiphase	1	Includes static stress analysis and mechanical wave propagation (BEM) with linear and nonlinear material models and linear dynamics.	1	25,000+
	Professional SuboLSE	1	Includes static stress analysis and is extensible to nonlinear wave propagation (BEM) with linear and nonlinear material models and linear dynamics.	1	1,000+
	ALGOR/ARTS4D	1	Includes complete 3D/4D analysis for static stress with linear material models, hybrid frequency domain, critical buckling and non-linear material model, wave propagation (BEM) with linear and nonlinear material models and linear dynamics.	1	1,000+
Altair Engineering 248.514.2400 www.altair.com	HyperWorks	1,2	Modeling, assembly, optimization, simulation and process collaborative tools.	1	—
ANSYS, Inc. 704.514.2000 www.ansys.com	ANSYS/CAE Desktop	1	Finite element analysis of linear and nonlinear structural response, buckling, modal analysis, full harmonic response, transient harmonic response, multi-degree-of-freedom and fluid flow problems.	1	Contact Vendor
BSI of A. Rize 800.422.2000 www.BSIrize.com	Structural Dynamic Test/Correlation	2	Suite of software that graphically guides users through actual modal and OEC tests.	2	1,000-10,000
	Operational Modal Analysis	2	Requires only modal analysis, calculates resonance frequency and damping ratio, shape, without measuring input force.	2	1,000-10,000

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Table of Contents Cae Software For Structural Dynamics Sound And Vibration

1. Understanding the eBook Cae Software For Structural Dynamics Sound And Vibration
 - The Rise of Digital Reading Cae Software For Structural Dynamics Sound And Vibration
 - Advantages of eBooks Over Traditional Books
2. Identifying Cae Software For Structural Dynamics Sound And Vibration
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cae Software For Structural Dynamics Sound And Vibration
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cae Software For Structural Dynamics Sound And Vibration
 - Personalized Recommendations
 - Cae Software For Structural Dynamics Sound And Vibration User Reviews and Ratings
 - Cae Software For Structural Dynamics Sound And Vibration and Bestseller Lists
5. Accessing Cae Software For Structural Dynamics Sound And Vibration Free and Paid eBooks
 - Cae Software For Structural Dynamics Sound And Vibration Public Domain eBooks
 - Cae Software For Structural Dynamics Sound And Vibration eBook Subscription Services
 - Cae Software For Structural Dynamics Sound And Vibration Budget-Friendly Options

6. Navigating Cae Software For Structural Dynamics Sound And Vibration eBook Formats
 - ePub, PDF, MOBI, and More
 - Cae Software For Structural Dynamics Sound And Vibration Compatibility with Devices
 - Cae Software For Structural Dynamics Sound And Vibration Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cae Software For Structural Dynamics Sound And Vibration
 - Highlighting and Note-Taking Cae Software For Structural Dynamics Sound And Vibration
 - Interactive Elements Cae Software For Structural Dynamics Sound And Vibration
8. Staying Engaged with Cae Software For Structural Dynamics Sound And Vibration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cae Software For Structural Dynamics Sound And Vibration
9. Balancing eBooks and Physical Books Cae Software For Structural Dynamics Sound And Vibration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cae Software For Structural Dynamics Sound And Vibration
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cae Software For Structural Dynamics Sound And Vibration
 - Setting Reading Goals Cae Software For Structural Dynamics Sound And Vibration
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cae Software For Structural Dynamics Sound And Vibration
 - Fact-Checking eBook Content of Cae Software For Structural Dynamics Sound And Vibration
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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