

# Welcome to Ansoft HFSS

## • What is HFSS?

- HFSS is a high-performance full-wave electromagnetic(EM) field simulator for arbitrary 3D volumetric passive device modeling that takes advantage of the familiar Microsoft Windows graphical user interface. It integrates simulation, visualization, solid modeling, and automation in an easy-to-learn environment where solutions to your 3D EM problems are quickly and accurately obtained. Ansoft HFSS employs the Finite Element Method(FEM), adaptive meshing, and brilliant graphics to give you unparalleled performance and insight to all of your 3D EM problems. Ansoft HFSS can be used to calculate parameters such as S-Parameters, Resonant Frequency, and Fields. Typical uses include:
  - **Package Modeling** – BGA, QFP, Flip-Chip
  - **PCB Board Modeling** – Power/Ground planes, Mesh Grid Grounds, Backplanes
  - **Silicon/GaAs** • Spiral Inductors, Transformers
  - **EMC/EMI** – Shield Enclosures, Coupling, Near- or Far-Field Radiation
  - **Antennas/Mobile Communications** – Patches, Dipoles, Horns, Conformal Cell Phone Antennas, Quadrafilar Helix, Specific Absorption Rate(SAR), Infinite Arrays, Radar Cross Section(RCS), Frequency Selective Surfaces(FSS)
  - **Connectors** – Coax, SFP/XFP, Backplane, Transitions
  - **Waveguide** – Filters, Resonators, Transitions, Couplers
  - **Filters** – Cavity Filters, Microstrip, Dielectric
- HFSS is an interactive simulation system whose basic mesh element is a tetrahedron. This allows you to solve any arbitrary 3D geometry, especially those with complex curves and shapes, in a fraction of the time it would take using other techniques.
- The name HFSS stands for High Frequency Structure Simulator. Ansoft pioneered the use of the Finite Element Method(FEM) for EM simulation by developing/implementing technologies such as tangential vector finite elements, adaptive meshing, and Adaptive Lanczos-Pade Sweep(ALPS). Today, HFSS continues to lead the industry with innovations such as Modes-to-Nodes and Full-Wave Spice™.
- Ansoft HFSS has evolved over a period of years with input from many users and industries. In industry, Ansoft HFSS is the tool of choice for high-productivity research, development, and virtual prototyping.

# Ansoft Hfss 13 Recent Guide

**Djuradj Budimir**

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**The RF and Microwave Handbook** Mike Golio,2000-12-20 The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically The modern microwave and RF engineer is expected to know customer expectations market trends manufacturing technologies and factory models to a degree that is unprecedented in the New Developments and Applications in Sensing Technology Subhas Chandra Mukhopadhyay,Aimé Lay-Ekuakille,Anton Fuchs,2011-01-22 This book has focussed on different aspects of smart sensors and sensing technology i e intelligent measurement information processing adaptability recalibration data fusion validation high reliability and integration of novel and high performance sensors in the areas of magnetic ultrasonic vision and image sensing wireless sensors and network microfluidic tactile gyro flow surface acoustic wave humidity and ultra wide band While future interest in this field is ensured by the constant supply of emerging modalities techniques and engineering solutions as well as an increasing need from aging structures many of the basic concepts and strategies have already matured and now offer opportunities to build upon The book has primarily been focussed for postgraduate and research students working on different aspects of design and developments of smart sensors and sensing technology

Advanced Millimeter-wave Technologies Duixian Liu,Ulrich Pfeiffer,Janusz Grzyb,Brian Gaucher,2009-03-03 This book explains one of the hottest topics in wireless and electronic devices community namely the wireless communication at mmWave frequencies especially at the 60 GHz ISM band It provides the reader with knowledge and techniques for mmWave antenna design evaluation antenna and chip packaging Addresses practical engineering issues such as RF material evaluation and selection antenna and packaging requirements manufacturing tolerances antenna and system interconnections and antenna One of the first books to discuss the emerging research and application areas particularly chip packages with integrated antennas wafer scale mmWave phased arrays and imaging Contains a good number of case studies to aid understanding Provides the antenna and packaging technologies for the latest and emerging applications with the emphases on antenna integrations for practical applications such as wireless USB wireless video phase array automobile collision avoidance radar and imaging

**Computational Electromagnetics for RF and Microwave Engineering** David B. Davidson,2005-02-24 The numerical approximation of Maxwell's equations Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying

methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry **Conference Proceedings** ,2003 **Generalized Filter Design by Computer Optimization** Djuradj Budimir,1998 Design better more effective RF microwave and millimeter wave filters in substantially less time with this practical new book It shows you how to employ sophisticated optimization based approaches to filter design and provides ready made CAD filter design algorithms that help you easily develop a wide variety of filter configurations *Electrical Performance of Electronic Packaging* ,2004 **Optoelectronic Materials and Technology in the Information Age** Ruyan Guo,2002 This volume will provide interdisciplinary treatment with a strong materials community for technical exchange on optoelectronic materials device application and system development Proceedings of the symposium at the 103rd Annual Meeting of The American Ceramic Society held April 22 25 2001 in Indianapolis Indiana Ceramic Transactions Volume 126 **Practical MMIC Design** Steve Marsh (Ph. D.),2006 How do you say hello in Arabic Explore the pages of this Arabic English picture dictionary to learn new words and phrases Colorful photographs and simple labels make learning Arabic easy **Microwave Journal** ,2008 **JJAP** ,2003 **Japanese Journal of Applied Physics** ,2003 **Low Temperature 3D Integration Technology** Sang Kevin Kim,2006 *Three Dimensional Wafer Level Interconnects for Integration in High Speed, Broadband Packaging and Circuit Applications* Swagata Riki Banerjee,2005 *Proceedings of the 1999 Particle Accelerator Conference* ,1999 **Data Sources** ,2000 **IEICE Transactions on Electronics** ,2005 **Automotive Engineering International** ,2004

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