

# **Ansoft HFSS Tutorial Rectangular Waveguide**

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# Hfss 13 Tutorial

**Duixian Liu, Ulrich Pfeiffer, Janusz  
Grzyb, Brian Gaucher**



## Hfss 13 Tutorial:

Co-simulations of Microwave Circuits and High-Frequency Electromagnetic Fields Mei Song Tong, Xiao Yu Li, 2024-07-03

This book aims to provide many advanced application topics for microwave circuits and high frequency electromagnetic EM fields by using advanced design system ADS and high frequency structure simulator HFSS as simulation platforms In particular it contains the latest multidisciplinary co simulation guidance on the design of relevant components and devices Currently the circuit field design and performance analysis and optimization strongly rely on various kinds of robust electronic design automation EDA software RF microwave engineers must grasp two or more types of related simulation design software ADS by Keysight and HFSS by Ansys are the representative for circuit simulations and for field and structural simulations of microwave devices respectively At present these two types of software are widely used in enterprises universities and research institutions The main purpose of this book is to enable readers who are interested in microwave engineering and applied electromagnetics to master the applications of these two tools It also helps readers expand their knowledge boundaries behind those types of software and deepen their understanding of developing interdisciplinary technologies by co simulations The book is divided into three parts The first part introduces the two latest versions of ADS and HFSS and helps readers better understand the basic principles and latest functions better It also advises how to choose appropriate simulation tools for different problems The second part mainly describes co simulations for high frequency EM fields microwave circuits antenna designs EM compatibility EMC and thermal and structural analyses It provides guides and advices on performing co simulations by ADS and HFSS incorporated with other types of software respectively The last part narrates the automation interfaces and script programming methods for co simulations It primarily deals with the Advanced Extension Language AEL Python Data Link PDL and MATLAB interface in ADS For HFSS it discusses VBScript IronPython scripting and Application Programming Interface APIs based on MATLAB Each topic contains practical examples to help readers understand so that they can gain a solid knowledge and skills regarding automated interfaces and scripting methods based on these kinds of software Concisely written in combination with practical examples this book is very suitable as a textbook in introductory courses on microwave circuit and EM simulations and also as a supplementary textbook in many courses on electronics microwave engineering communication engineering and related fields As well it can serve as a reference book for microwave engineers and researchers

*Surrogate-Based Modeling and Optimization* Slawomir Koziel, Leifur Leifsson, 2013-06-06 Contemporary engineering design is heavily based on computer simulations Accurate high fidelity simulations are used not only for design verification but even more importantly to adjust parameters of the system to have it meet given performance requirements Unfortunately accurate simulations are often computationally very expensive with evaluation times as long as hours or even days per design making design automation using conventional methods impractical These and other problems can be alleviated by the development and employment of

so called surrogates that reliably represent the expensive simulation based model of the system or device of interest but they are much more reasonable and analytically tractable This volume features surrogate based modeling and optimization techniques and their applications for solving difficult and computationally expensive engineering design problems It begins by presenting the basic concepts and formulations of the surrogate based modeling and optimization paradigm and then discusses relevant modeling techniques optimization algorithms and design procedures as well as state of the art developments The chapters are self contained with basic concepts and formulations along with applications and examples The book will be useful to researchers in engineering and mathematics in particular those who employ computationally heavy simulations in their design work

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**Advanced Millimeter-wave Technologies** Duixian Liu,Ulrich Pfeiffer,Janusz Grzyb,Brian Gaucher,2009-04-06 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

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