



COMSOL Multiphysics

Model Manager Server Manual

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Marcel A. Müller



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COMSOL5 for Engineers Mehrzad Tabatabaian,2015-08-07 COMSOL5 Multiphysics is one of the most valuable software modeling tools for engineers and scientists This book introduces multiphysics modeling techniques and examples accompanied by practical applications using COMSOL5 x The mathematical fundamentals engineering principles and design criteria are presented as integral parts of the examples At the end of chapters are references that contain more in depth physics technical information and data these are referred to throughout the book and used in the examples *Cloud Computing for Engineering Applications* Benito A. Stradi-Granados,2020-04-04 This book explains the use of cloud computing systems for engineering applications to satisfy the need for enterprise level state of the art computational capacities at an affordable cost As huge costs are involved in the maintenance and timely renovation of computational capabilities particularly for projects that require significant computational capacity cloud services can achieve considerable savings for users and organizations engaged in engineering research and development Dr Stradi Granados explains how to extract a maximum value from every dollar invested in cloud computer server The types of facilities located around the world that lease their resources to customers interested in reducing the internal overhead and implementation time The volume features chapters on model generation motion studies and prototyping is ideal for students researchers practitioners and facility s managers across a range of engineering domains *NASA Tech Briefs* ,2016 *The AUN/SEED-Net Joint Regional Conference in Transportation, Energy, and Mechanical Manufacturing Engineering* Anh-Tuan Le, Van-Sang Pham, Minh-Quy Le, Hoang-Luong Pham,2022-05-31 This book The AUN SEED Net Joint Regional Conference in Transportation Energy and Mechanical Manufacturing Engineering gathers selected papers submitted to the 14th Regional Conference in Energy Engineering and the 13th Regional Conference in Mechanical Manufacturing Engineering in the fields related to intelligent equipment automotive engineering mechanical systems and sustainable manufacturing renewable energy heat and mass transfer Under the theme of Integration and Innovation for Sustainable Development This book consists of papers in the aforementioned fields presented by researchers and scientists from universities research institutes and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm resulting from the COVID 19 pandemic *Numerical Methods and Optimization* Éric Walter,2014-07-22 Initial training in pure and applied sciences tends to present problem solving as the process of elaborating explicit closed form solutions from basic principles and then using these solutions in numerical applications This approach is only applicable to very limited classes of problems that are simple enough for such closed form solutions to exist Unfortunately most real life problems are too complex to be amenable to this type of treatment Numerical Methods a Consumer Guide presents methods for dealing with them Shifting the paradigm from formal calculus to numerical computation the text makes it possible for the reader to discover how to escape the dictatorship of those particular cases that

are simple enough to receive a closed form solution and thus gain the ability to solve complex real life problems understand the principles behind recognized algorithms used in state of the art numerical software learn the advantages and limitations of these algorithms to facilitate the choice of which pre existing bricks to assemble for solving a given problem and acquire methods that allow a critical assessment of numerical results Numerical Methods a Consumer Guide will be of interest to engineers and researchers who solve problems numerically with computers or supervise people doing so and to students of both engineering and applied mathematics

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