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Large eddy simulation (LES) is a mathematical model for turbulence used in computational fluid dynamics. It was initially proposed in 1963 by Joseph Smagorinsky to simulate atmospheric air currents, and first explored by Deardorff (1970). LES is currently applied in a wide variety of engineering applications, including combustion, acoustics, and simulations of the atmospheric boundary layer.

Large eddy simulation - Wikipedia

Computational fluid dynamics (CFD) is a branch of fluid mechanics that uses numerical analysis and data structures to analyze and solve problems that involve fluid flows. Computers are used to perform the calculations required to simulate the free-stream flow of the fluid, and the interaction of the fluid (liquids and gases) with surfaces defined by boundary conditions.

Computational fluid dynamics - Wikipedia

BEST PRACTICE GUIDELINE FOR THE CFD SIMULATION OF FLOWS IN THE URBAN ENVIRONMENT
Edited by: Jörg Franke, Antti Hellsten, Heinke Schläpchen, Bertrand Carissimo

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VERIFICATION AND VALIDATION OF CFD SIMULATIONS by Fred Stern, Robert V. Wilson, Hugh W. Coleman*, and Eric G. Paterson of Iowa Institute of Hydraulic Research

VERIFICATION AND VALIDATION OF CFD SIMULATIONS

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Transformer Modeling By Harvey Morehouse. Contents: Magnetics (Part 1) - Transformer Modeling; Magnetics (Part 2) - Creating More Complex Transformer Models

Magnetics - Transformer Modeling

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Fire behaviour of gypsum plasterboard wall assemblies: CFD

head losses analysis in symmetrical trifurcations of penstocks - high pressure pipeline systems cfd c. a. aguirre¹, r. g. ramirez camacho,²

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Engineering Aspects of Electromagnetic Shielding Dr. Sergiu Radu Principal Engineer, EMC Design Sun Microsystems, Inc.

Engineering Aspects of Electromagnetic Shielding

Page 2 of 14 ABSTRACT Optimization of a High-Efficiency Jet Ejector by Computational Fluid Dynamics Software. (May 2005) Somsak Watanawanavet, B.S., Chulalongkorn University

OPTIMIZATION OF A HIGH-EFFICIENCY JET EJECTOR BY

Silicon steel is a soft magnetic material that is used in electrical power transformers, motors and generators. It has a high silicon content of about 3.2 mass %, which increases the electrical resistivity of iron and, therefore, reduces eddy current losses.

Fe-Si steel. transformer steel, electrical steel, soft

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Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

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