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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

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

Casting is a manufacturing process to make complex shapes of metal materials; during mass production, we may experience many defects, such as gas porosity, pin holes, blow holes, shrinkages and incomplete filling that may occur in sand casting.

Design optimization of gating and feeding system through

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Edited by: Jürg Franke, Antti Hellsten, Heinke Schläpfer, Bertrand Carissimo

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Systems Simulation: The Shortest Route to Applications. This site features information about discrete event system modeling and simulation. It includes discussions on descriptive simulation modeling, programming commands, techniques for sensitivity estimation, optimization and goal-seeking by simulation, and what-if analysis.

Modeling and Simulation - ubalt.edu

A new simulation approach, called "subset simulation"™, is proposed to compute small failure probabilities encountered in reliability analysis of engineering systems.

Estimation of small failure probabilities in high

Dimensioning and Tolerancing Handbook The need to make more precise products, the requirements of mass production, and the desire for interchangeability have resulted in increased importance of clearly defining dimensions and tolerances.

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The texture-related shape anisotropy of cup drawn metallic sheet parts is referred to as earing or ear formation. It is a characteristic phenomenon associated with the crystallographic texture and the resulting elastic-plastic anisotropy of metals.

sheet forming, modeling, simulation, texture, crystal

The microstructure evolution of pure Mg and two Mg-rare-earth alloys (Mg-3 wt.% Dy and Mg-3 wt.% Er) was studied during in situ compression tests by electron backscatter diffraction and electron channelling contrast imaging.

CPFEM, strain map. crystal plasticity, crystal plasticity

Art and Technology at Pixar (SIGGRAPH Asia 2018 Course) Ryusuke Villemin, Chia-Chi Hu, Sonoko Konishi, Hiroaki Narita, Magnus Wrenninge, David Yu December 2018 As described by this now famous quote "The art challenges technology, and the technology inspires art", technology has always played an important part in Pixar's movie making process.

Ordered by Date - Pixar Graphics Technologies

The mission of the journal is to publish high quality work from experimental, theoretical, and computational investigations on the fundamentals of combustion phenomena and closely allied matters. While submissions in all pertinent areas are welcomed, past and recent focus of the journal has been on:

Combustion and Flame - Journal - Elsevier

Oil and natural gas reserve evaluations, reservoir engineering studies. Coalbed methane database and Texas formation water chloride database available at web site.

Gary S. Swindell, Petroleum Engineering

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