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ERROR AND UNCERTAINTY QUANTIFICATION IN THE NUMERICAL SIMULATION OF COMPLEX FLUID FLOWS



Error and Uncertainty
Quantification in the Numerical
Simulation of Complex Fluid Flows

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The failure of numerical simulation to predict physical reality is often a direct consequence of the compounding effects of numerical error arising from finite-dimensional approximation and physical model uncertainty resulting from inexact knowledge and/or statistical representation. In this topical lecture, we briefly review systematic theories for quantifying numerical errors and restricted forms of model uncertainty occurring in simulations of fluid flow....

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