ANNOUNCEMENT

SYMPOSIUM ON QUANTIFICATION OF UNCERTAINTY IN COMPUTATIONAL FLUID DYNAMICS
ASME FLUIDS ENGINEERING DIVISION SPRING MEETING

20–24 June 1993, Washington, D.C., U.S.A.

The Coordinating Group on Computational Fluid Dynamics (CGCFD) and the Fluid Mechanics Committee of the ASME Fluids Engineering Division (FED) are organizing a Symposium on the Quantification of Numerical Uncertainty in Computational Fluid Dynamic (CFD) Predictions.

Purpose and Scope

Computational Fluid Dynamics (CFD) has established itself as a viable research technique and has demonstrated its ability, when used correctly, to reproduce complex flow physics accurately. However, the successes in CFD simulations have spawned a new responsibility and focus for CFD, namely quantification of numerical uncertainty. Numerical experiments are now possible, therefore, and as in physical experiments a statement of numerical accuracy is a logical extension to the method.

The purpose of this symposium is to promote the discussion and interchange of current information related to developing techniques for quantification of numerical uncertainty. Papers are solicited in three broad areas: 1) characterization of uncertainty (i.e., what are the appropriate measures of numerical uncertainty?); 2) identification of the sources of errors in numerical simulations; and 3) methods for computing local and global magnitudes of numerical uncertainty.

Selection of Papers

Prospective authors should submit a 500 word abstract to the organizers by 30 June, 1992. Authors will be notified of their preliminary acceptance by 15 August, 1992. Draft copies of the full papers must be submitted by 30 September, 1992 for formal review by the organizing committee. Authors of accepted manuscripts will be notified by 12 December, 1992 and receive a set of mats for typing the final draft. The final paper reproduced on mats must be submitted by 15 February, 1993. Papers must conform to the editorial standards for FED publications. Accepted papers will be published in a bound volume available at the symposium.

Organizers

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