

Preface

Advances in Nuclear Engineering Computational Methods

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The papers in this special issue of *Nuclear Science and Engineering (NS&E)* were originally presented at the eleventh biennial topical meeting of the Mathematics and Computation Division of the American Nuclear Society. The wide range of application areas reflects the expanding diversity of the division's activities. These papers were presented in sessions on numerical methods for diffusion theory and kinetics, thermal hydraulics, fusion engineering and charged-particle transport, real-time power plant simulation, and fluid/structure interaction. The next issue will include papers from three sessions on deterministic and stochastic transport methods.

A total of 90 papers were presented at the meeting. Initially, the program committee reviewed summaries of the papers with acceptance based on originality and significance. Prior to the meeting, the full papers were reviewed for completeness. Forty-one of the accepted papers were subsequently considered suitable for publication in *NS&E*. Several of the papers were revised and expanded prior to submission to D. G. Cacuci, *NS&E* Associate Editor, for publication.

The Mathematics and Computation Division welcomes this opportunity to publish these papers in the archival literature. The meeting's program committee expresses its particular appreciation to *NS&E* editors J. M. Kallfelz and D. G. Cacuci for organizing these special issues of *NS&E*.