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FAST DIRECT POISSON SOLVERS FOR HIGH-ORDER FINITE ELEMENT DISCRETIZATIONS IN RECTANGULARLY-DECOMPOSABLE DOMAINS. Anthony T. Patera, *Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.*

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FLIP: A METHOD FOR ADAPTIVELY ZONED, PARTICLE-IN-CELL CALCULATIONS OF FLUID FLOWS IN TWO DIMENSIONS. J. U. Brackbill, *Brown University, Providence, RI, USA*; H. M. Ruppel, *Los Alamos National Laboratory, Los Alamos, New Mexico, USA.*

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BLENDING METHOD FOR GRID GENERATION. John Steinhoff, *The University of Tennessee, Tullahoma, Tennessee, USA.*

ABOUT THE COUPLING OF TURBULENCE CLOSURE MODELS WITH AVERAGED NAVIER-STOKES EQUATIONS. D. Vandromme, *Université des Sciences et Techniques de Lille, Villeneuve d'Ascq, FRANCE*; H. Ha Minh, *Institut de Mécanique des Fluides de Toulouse, FRANCE.*

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A METHOD FOR REDUCING NUMERICAL DISPERSION IN TWO-PHASE BLACK-OIL RESERVOIR SIMULATION, John B. Bell, Gregory R. Shubin, and John A. Trangenstein, *Exxon Production Research Co., Houston, Texas, USA.*

PREDICTIONS OF FLUID FLOW AND HEAT TRANSFER PROBLEMS BY THE VORTICITY-VELOCITY FORMULATION OF THE NAVIER-STOKES EQUATIONS. Toru Fusegi and Bakhtier Farouk, *Drexel University, Philadelphia, Pennsylvania, USA.*

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