

Fundamental Mechanics of Fluids, Third Edition, 2002, 548 pages, Iain G. Currie, I.G. Currie, 0824745655, 9780824745653, CRC Press, 2002

Retaining the features that made previous editions perennial favorites, Fundamental Mechanics of Fluids, Third Edition illustrates basic equations and strategies used to analyze fluid dynamics, mechanisms, and behavior, and offers solutions to fluid flow dilemmas encountered in common engineering applications. The new edition contains completely reworked line drawings, revised problems, and extended end-of-chapter questions for clarification and expansion of key concepts. Includes appendices summarizing vectors, tensors, complex variables, and governing equations in common coordinate systems. Comprehensive in scope and breadth, the Third Edition of Fundamental Mechanics of Fluids discusses: Continuity, mass, momentum, and energy. One-, two-, and three-dimensional flows. Low Reynolds number solutions. Buoyancy-driven flows. Boundary layer theory. Flow measurement. Surface waves. Shock waves.

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