1. Record Nr. UNINA9910797686803321 Autore Vajravelu Kuppalapalle Titolo Fluid flow, heat and mass transfer at bodies of different shapes: numerical solutions / / Kuppalapalle Vajravelu, Swati Mukhopadhyay Pubbl/distr/stampa Amsterdam, [Netherlands]:,: Academic Press,, 2016 ©2016 **ISBN** 0-12-803785-7 Descrizione fisica 1 online resource (0 p.) Disciplina 620,106 Soggetti Fluid mechanics - Mathematical models Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Sommario/riassunto Most of the equations governing the problems related to science and engineering are nonlinear in nature. As a result, they are inherently difficult to solve. Analytical solutions are available only for some special cases. For other cases, one has no easy means but to solve the problem must depend on numerical solutions. Fluid Flow, Heat and Mass Transfer at Bodies of Different Shapes: Numerical Solutions presents the current theoretical developments of boundary layer theory, a branch of transport phenomena. Also, the book addresses the theoretical developments in the area and presents a number of physical problems that have been solved by analytical or numerical method. It is focused particularly on fluid flow problems governed by nonlinear differential equations. The book is intended for researchers in applied

mathematics, physics, mechanics and engineering