

1. Record Nr.	UNINA9910463218403321
Autore	Ben-Artzi Matania <1948->
Titolo	Navier-Stokes equations in planar domains [[electronic resource] /] / Matania Ben-Artzi, Jean-Pierre Croisille, Dalia Fishelov
Pubbl/distr/stampa	London, : Imperial College Press, 2013
ISBN	1-84816-276-6
Descrizione fisica	1 online resource (315 p.)
Altri autori (Persone)	CroisilleJean-Pierre FishelovDalia
Disciplina	532.05201515353
Soggetti	Navier-Stokes equations Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Basic theory -- pt. II. Approximate solutions.
Sommario/riassunto	This volume deals with the classical Navier-Stokes system of equations governing the planar flow of incompressible, viscid fluid. It is a first-of-its-kind book, devoted to all aspects of the study of such flows, ranging from theoretical to numerical, including detailed accounts of classical test problems such as "driven cavity" and "double-driven cavity".A comprehensive treatment of the mathematical theory developed in the last 15 years is elaborated, heretofore never presented in other books. It gives a detailed account of the modern compact schemes based on a "pure streamfunction" approach.