

1. Record Nr.	UNINA9910254618003321
Titolo	Astrophysics of Black Holes : From Fundamental Aspects to Latest Developments // edited by Cosimo Bambi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2016
ISBN	3-662-52859-2
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XI, 207 p. 35 illus.)
Collana	Astrophysics and Space Science Library, , 0067-0057 ; ; 440
Disciplina	523.01
Soggetti	Astrophysics Gravitation Astrophysics and Astroparticles Classical and Quantum Gravitation, Relativity Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Black Hole Accretion Discs -- Black hole X-ray binaries -- Measuring spin: implications for our understanding of black hole accretion physics -- Jet and wind from black hole accretion flows -- Gravitational Waves: a new tool for observing the Universe -- A brief review of relativistic gravitational collapse -- General relativity in a nutshell.
Sommario/riassunto	This book discusses the state of the art of the basic theoretical and observational topics related to black hole astrophysics. It covers all the main topics in this wide field, from the theory of accretion disks and formation mechanisms of jet and outflows, to their observed electromagnetic spectrum, and attempts to measure the spin of these objects. Black holes are one of the most fascinating predictions of general relativity and are currently a very hot topic in both physics and astrophysics. In the last five years there have been significant advances in our understanding of these systems, and in the next five years it should become possible to use them to test fundamental physics, in particular to predict the general relativity in the strong field regime. The book is both a reference work for researchers and a textbook for graduate students.

