

1. Record Nr.	UNINA9910459774703321
Autore	Jammer Max
Titolo	Concepts of mass in contemporary physics and philosophy [[electronic resource] /] / Max Jammer
Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, c2000
ISBN	1-4008-1661-0 1-4008-1219-4 1-282-76715-1 9786612767159 1-4008-2378-1
Edizione	[Course Book]
Descrizione fisica	1 online resource (193 p.)
Disciplina	530.11
Soggetti	Mass (Physics) Physics - Philosophy 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	Frontmatter -- Contents -- Preface -- Acknowledgments -- Introduction -- Chapter 1. Inertial Mass -- Chapter 2. Relativistic Mass -- Chapter 3. The Mass-Energy Relation -- Chapter 4. Gravitational Mass and the Principle of Equivalence -- Chapter 5. The Nature of Mass -- Index
Sommario/riassunto	The concept of mass is one of the most fundamental notions in physics, comparable in importance only to those of space and time. But in contrast to the latter, which are the subject of innumerable physical and philosophical studies, the concept of mass has been but rarely investigated. Here Max Jammer, a leading philosopher and historian of physics, provides a concise but comprehensive, coherent, and self-contained study of the concept of mass as it is defined, interpreted, and applied in contemporary physics and as it is critically examined in the modern philosophy of science. With its focus on theories proposed after the mid-1950s, the book is the first of its kind, covering the most recent experimental and theoretical investigations into the nature of mass and its role in modern physics, from the realm of elementary

particles to the cosmology of galaxies. The book begins with an analysis of the persistent difficulties of defining inertial mass in a noncircular manner and discusses the related question of whether mass is an observational or a theoretical concept. It then studies the notion of mass in special relativity and the delicate problem of whether the relativistic rest mass is the only legitimate notion of mass and whether it is identical with the classical (Newtonian) mass. This is followed by a critical analysis of the different derivations of the famous mass-energy relationship $E = mc^2$ and its conflicting interpretations. Jammer then devotes a chapter to the distinction between inertial and gravitational mass and to the various versions of the so-called equivalence principle with which Newton initiated his Principia but which also became the starting point of Einstein's general relativity, which supersedes Newtonian physics. The book concludes with a presentation of recently proposed global and local dynamical theories of the origin and nature of mass. Destined to become a much-consulted reference for philosophers and physicists, this book is also written for the nonprofessional general reader interested in the foundations of physics.

2. Record Nr.	UNINA9910779640703321
Titolo	Iraq [[electronic resource]] : forward, backward or nowhere? // Frederick M. Golenberg, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2010
ISBN	1-61122-017-3
Descrizione fisica	1 online resource (312 p.)
Collana	The Middle East in turmoil series
Altri autori (Persone)	GolenbergEdward M. <1952->
Disciplina	956.70443
Soggetti	National security - Iraq United States Military relations Iraq Iraq Military relations United States Iraq Politics and government 2003- Iraq History 2003-
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	Iraq : politics, elections, and benchmarks / Kenneth Katzman -- Iraq : key issues for Congressional oversight / Government Accountability Office -- Measuring stability and security in Iraq / Dept. of Defense Supplemental Appropriations -- Operation Iraqi Freedom : strategies, approaches, results, and issues for Congress / Catherine Dale.