1. Record Nr. UNINA9910586583703321

Autore	Ricci Fulvio
Titolo	Experimental Gravitation / / by Fulvio Ricci, Massimo Bassan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-95596-6
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (446 pages)
Collana	Lecture Notes in Physics, , 1616-6361 ; ; 998
Disciplina	531.14
Soggetti	Gravitation Quantitative research Physics Classical and Quantum Gravity Gravitational Physics Data Analysis and Big Data Applied and Technical Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Classical Gravity -- Keplerian dynamics; Multipole expansion -- Tides -- Active, passive mass. -Torsion Pendulum: the oldest physics experimental tool, operation, strategies, analytic model -- The Equivalence Principle: Weak, Einstein and strong EP, experimental tests. - Principles of metric theories: LLI and LPI and experimental verifications; the red shift -- Schiff's conjecture -- Gravity Tests at 1PN: recap of GR equations -- WFSM approximation, classical tests of GR -- Gravitoelectromagnetism and its tests -- Gravity and PPN -- The PPN formulation of metric theories -- Solar System tests and limits on PPN parameters -- Gravitational Waves (GW): GW in GR and in other theories; emission; sources; signals -- GW Detectors: Interferometers -- Data Analysis -- Pulsars and GR -- Space detectors of GW Sagnac effect. GPS. Modulation. Feedback. FabryPerot.
Sommario/riassunto	This book features a comprehensive review of experimental gravitation. It is a textbook based on the graduate courses on “Experimental Gravitation” given by the authors at their respective universities in Rome: Sapienza and Tor Vergata. A number of different research topics

		in the field are covered: from the torsion pendulum (still today the tool of choice for measuring small forces or torques) to the large interferometers developed to observe gravitational waves. Techniques that are still under development are also discussed, like the pulsar timing array and space-based detectors of the future. This book is written by experimentalists for experimentalists. While the background physics is summarized for less experienced readers, the emphasis is certainly on experimental verifications: the strategy, the apparatuses, the data analysis and the results of many cornerstone experiments are analyzed and discussed in depth. This textbook serves as a useful resource for both graduate students and professionals working in the increasingly vibrant field of experimental gravity.

2.	Record Nr.	UNINA9910140984403321
	Autore	Veletsianos George
	Titolo	Emerging technologies in distance education / / edited by George Veletsianos
	Pubbl/distr/stampa	Athabasca University Press, 2010 Edmonton, Alberta : , : AU Press, , 2010 ©2010
	ISBN	9786612852015 9781282852013 1282852019 9781897425770 1897425775
	Descrizione fisica	1 online resource (335 pages) : illustrations
	Collana	Issues in distance education series, , 1919-4390
	Disciplina	371.3/58
	Soggetti	Distance education - Technological innovations Educational technology
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Part 4 Learner-learner, Learner-content, learner-instructor interaction and communication with emerging technologies -- Using social media

to create a place that supports communication / Rita Kop -- Technical, pedagogical, and cultural considerations for language learning in MUVEs / Charles Xiaoxue Wang, Brendan Calandra, & Youngjoo Yi -- Animated pedagogical agents and immersive worlds : two worlds colliding / Bob Heller & Mike Procter.
Part 3 Social, organizational, and contextual factors in emerging technologies implementations -- Personal learning environments / Trey Martindale & Michael Dowdy -- Learning, design, and emergence : two case studies of Moodle in distance education / Andrew Whitworth & Angela Benson -- Institutional implementation of wikis in higher education : the case of the Open University of Israel (OUL) / Hagit Meishar-Tal, Yoav Yair, & Edna Tal-Elhasid -- The use of Web analytics in the design and evaluation of distance education / P. Clint Rogers, Mary R. McEwan, & SaraJoy Pond -- New communications options : a renaissance in videoconference use / Richard Caladine ... et al. --
Part 1 Foundations of emerging technologies in distance education -- A definition of emerging technologies for education / George Veletsianos -- Theories for learning with emerging technologies / Terry Anderson -- Imagining multi-roles in Web 2.0 distance education / Elizabeth Wellburn & B.J. Eib -- Beyond distance and time constraints : applying social networking tools and Web 2.0 approaches in distance education / Mark J.W. Lee & Catherine McLoughlin --
Part 2 Learning designs for emerging technologies -- "Emerging": a re-conceptualization of contemporary technology / The Learning Technologies Collaborative -- Developing personal learning networks for open and social learning / Alec Couros -- Creating a culture of community in the online classroom using artistic pedagogical technologies / Beth Perry & Margaret Edwards -- Structured dialogue embedded within emerging technologies / Yiannis Laouris ... et al. --

Sommario/riassunto

A one-stop knowledge resource, Emerging Technologies in Distance Education showcases the international work of research scholars and innovative distance education practitioners who use emerging interactive technologies for teaching and learning at a distance.This widely anticipated book harnesses the dispersed knowledge of international experts who highlight pedagogical, organizational, cultural, social, and economic factors that influence the adoption and integration of emerging technologies in distance education. Emerging Technologies in Distance Education provides expert advice on how educators can launch effective and engaging distance education initiatives in response to technological advancements, changing mindsets, and economic and organizational pressures. The volume goes beyond the hype surrounding Web 2.0 technologies and highlights the important issues that researchers and educators need to consider to enhance educational practice.