1. Record Nr. UNINA9910786733303321

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Titolo	Laser-based measurements for time and frequency domain applications : a handbook / / Pasquale Maddaloni, Marco Bellini, Paolo De Natale
Pubbl/distr/stampa	Boca Raton, Fla : , : Taylor & Francis, , 2012
ISBN	0-429-15118-7 1-4398-4153-5
Edizione	[1st edition]
Descrizione fisica	1 online resource (730 p.)
Collana	Series in optics and optoelectronics
Classificazione	TEC019000TEC064000
Altri autori (Persone)	BelliniMarco <1967-> De NatalePaolo
Disciplina	529/.7
Soggetti	Time measurements Frequencies of oscillating systems - Measurement Lasers - Scientific applications Optical measurements Spectrum analysis Atmosphere - Laser observations
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.
Nota di contenuto	Front Cover; Dedication; Contents; Foreword; Preface; Authors; Chapter 1 Shedding light on the art of timekeeping; Chapter 2 Characterization and control of harmonic oscillators; Chapter 3 Passive resonators; Chapter 4 Continuous-wave coherent radiation sources; Chapter 5 High-resolution spectroscopic frequency measurements; Chapter 6 Time and frequency measurements with pulsed lasersystems; Chapter 7 Frequency standards; Chapter 8 Future trends in fundamental physics and applications; Bibliography; Color Insert; Back Cover
Sommario/riassunto	Providing a self-contained introductory review of modern laser-based time and frequency measurement techniques, this text represents an interdisciplinary look at the recent developments and future directions of optical frequency meteorology, as well as a range of meteorological disciplines. Suitable for graduate students and practicing physicists and engineers, it discusses the most advanced laser-based spectroscopic measurement techniques, including UV, j1W, visible frequency, and IR laser. The authors, leading optical meteorologists, also cover advanced

spectroscopic techniques, experimental quantum optics, and quantum information--