

1. Record Nr.	UNINA9910711928703321
Autore	Flocks James G (James Gerald)
Titolo	Seismic profile analysis of sediment deposits in Brownlee and Hells Canyon Reservoirs near Cambridge, Idaho / / by James Flocks, Kyle Kelso, Ryan Fosness, and Chris Welcker
Pubbl/distr/stampa	Reston, Virginia : , : U.S. Department of the Interior, U.S. Geological Survey, , 2014
Descrizione fisica	1 online resource (v, 14 pages) : illustrations (some color), maps (some color)
Collana	Open-file report ; ; 2014-1019
Soggetti	Sedimentation and deposition - Hells Canyon Dam (Idaho and Or.) Sedimentation and deposition - Brownlee Reservoir (Idaho and Or.) Sedimentation and deposition Brownlee Dam (Idaho and Or.) Environmental aspects Hells Canyon Dam (Idaho and Or.) Environmental aspects Brownlee Reservoir (Idaho and Or.) Environmental aspects Idaho
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (page 14).

2. Record Nr.	UNINA9910438115503321
Autore	Soffel Michael
Titolo	Space-time reference systems // Michael Soffel ; Ralf Langhans
Pubbl/distr/stampa	Heidelberg, : Springer, 2013
ISBN	3-642-30226-2
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (320 p.)
Collana	Astronomy and astrophysics library, , 0941-7834
Altri autori (Persone)	LanghansRalf
Disciplina	526.1
Soggetti	Celestial reference systems Time - Systems and standards
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	List of Symbols -- Preface -- 1 Introduction -- 2 Time -- 3 Space-Time -- 4 Barycentric Dynamical Reference System -- 5 Classical Astronomical Coordinates -- 6 Astrometry -- 7 Celestial Reference System -- 8 Terrestrial Reference System -- 9 From the GCRS to the ITRS -- 10 Astronomical Software -- Yearbooks -- 11 Astronomical constants -- References -- List of acronyms -- Appendix A: Solutions to Exercises -- Appendix B: Description of the AstroRef Package -- Index 304.
Sommario/riassunto	The high accuracy of modern astronomical spatial-temporal reference systems has made them considerably complex. This book offers a comprehensive overview of such systems. It begins with a discussion of 'The Problem of Time', including recent developments in the art of clock making (e.g., optical clocks) and various time scales. The authors address the definitions and realization of spatial coordinates by reference to remote celestial objects such as quasars. After an extensive treatment of classical equinox-based coordinates, new paradigms for setting up a celestial reference system are introduced that no longer refer to the translational and rotational motion of the Earth. The role of relativity in the definition and realization of such systems is clarified. The topics presented in this book are complemented by exercises (with solutions). The authors offer a series of files, written in Maple, a standard computer algebra system, to help readers get a feel for the various models and orders of magnitude.

Beyond astrometry, the main fields of application of high-precision astronomical spatial-temporal reference systems and frames are navigation (GPS, interplanetary spacecraft navigation) and global geodynamics, which provide a high-precision Celestial Reference System and its link to any terrestrial spatial-temporal reference system. Mankind's urgent environmental questions can only be answered in the context of appropriate reference systems in which both aspects, space and time, are realized with a sufficiently high level of accuracy. This book addresses all those interested in high-precision reference systems and the various techniques (GPS, Very Long Baseline Interferometry, Satellite Laser Ranging, Lunar Laser Ranging) necessary for their realization, including the production and dissemination of time signals. .
