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Titolo	Direct and inverse problems in wave propagation and applications // edited by Ivan Graham [and three others]
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Company, , [2013] ©2013
ISBN	3-11-028228-3
Descrizione fisica	1 online resource (328 p.)
Collana	Radon Series on Computational and Applied Mathematics ; ; 14
Classificazione	UF 5000
Altri autori (Persone)	GrahamIvan G
Disciplina	621.3841/10151535
Soggetti	Radio wave propagation Radio waves - Diffraction Radio waves - Scattering
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 -- Preface -- Contents -- Differential electromagnetic imaging / Ammari, Habib -- Multitrace boundary integral equations / Claeys, Xavier / Hiptmair, Ralf / Jerez-Hanckes, Carlos -- Direct and Inverse Elastic Scattering Problems for Diffraction Gratings / Elschner, Johannes / Hu, Guanghui -- Multigrid methods for Helmholtz problems: A convergent scheme in 1D using standard components / Ernst, Oliver G. / Gander, Martin J. -- Explicit local time-stepping methods for time-dependent wave propagation / Grote, Marcus J. / Mitkova, Teodora -- Absorbing boundary conditions and perfectly matched layers in wave propagation problems / Nataf, Frédéric -- Dynamic inverse scattering / Potthast, Roland W. E. -- Boundary integral equations for Helmholtz boundary value and transmission problems / Steinbach, Olaf -- Color plates -- Index
Sommario/riassunto	This book is the third volume of three volume series recording the "Radon Special Semester 2011 on Multiscale Simulation & Analysis in Energy and the Environment" taking place in Linz, Austria, October 3-7, 2011. This book surveys recent developments in the analysis of wave propagation problems. The topics covered include aspects of the forward problem and problems in inverse problems, as well as applications in the earth sciences. Wave propagation problems are

ubiquitous in environmental applications such as seismic analysis, acoustic and electromagnetic scattering. The design of efficient numerical methods for the forward problem, in which the scattered field is computed from known geometric configurations is very challenging due to the multiscale nature of the problems. Even more challenging are inverse problems where material parameters and configurations have to be determined from measurements in conjunction with the forward problem. This book contains review articles covering several state-of-the-art numerical methods for both forward and inverse problems. This collection of survey articles focusses on the efficient computation of wave propagation and scattering is a core problem in numerical mathematics, which is currently of great research interest and is central to many applications in energy and the environment. Two generic applications which resonate strongly with the central aims of the Radon Special Semester 2011 are forward wave propagation in heterogeneous media and seismic inversion for subsurface imaging. As an example of the first application, modelling of absorption and scattering of radiation by clouds, aerosol and precipitation is used as a tool for interpretation of (e.g.) solar, infrared and radar measurements, and as a component in larger weather/climate prediction models in numerical weather forecasting. As an example of the second application, inverse problems in wave propagation in heterogeneous media arise in the problem of imaging the subsurface below land or marine deposits. The book records the achievements of Workshop 3 "Wave Propagation and Scattering, Inverse Problems and Applications in Energy and the Environment". It brings together key numerical mathematicians whose interest is in the analysis and computation of wave propagation and scattering problems, and in inverse problems, together with practitioners from engineering and industry whose interest is in the applications of these core problems.

2. Record Nr.	UNINA9910484060703321
Autore	Westra Laura
Titolo	Child Law : Children's Rights and Collective Obligations // by Laura Westra
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-05071-0
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (188 p.)
Disciplina	323.352
Soggetti	Human rights Children Adolescence Political science Human Rights Childhood, Adolescence and Society Philosophy of Law
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 at the end of each chapters.
Nota di contenuto	Who is a Child? The Protection of Children's Rights -- The Child's Life, Health and Development Rights -- The Child's Right to Non-discrimination -- Child Law in the International Context: Exploitation, Abuse and The Limits of Labour Laws -- Child Law: Conflicts, Violence and Forced Displacement -- Concluding Thoughts: Progress in the Protection of the Child .
Sommario/riassunto	Child Law starts with the question "Who is the Child?" In direct contrast to the CRC, which calls for putting the interests of the child first in all policies dealing with children, it appears that the interests of others are the major consideration de facto. In law, children's right to protection is severely limited by the presence of a maximum age limit, with no consideration of the starting point: current and ongoing scientific research has demonstrated the effects of this non-consideration in a number of abnormalities and diseases, not only in children, but in adults and the elderly. The WHO has published a number of studies to

that effect, and the 2012 Report on Endocrine Disruptors more than confirms this claim. This and other scientific insights that have largely been ignored show the flaws and inadequacies of the legal regimes intended to protect children, in a number of areas, from the basic public health to the right to normal development; child labor law conventions; in conflict situations; as a result of climate and other events; children as illegal migrants; and as inmates in prison camps.
