

1. Record Nr.	UNINA9910454254103321
Autore	Iserles A.
Titolo	A first course in the numerical analysis of differential equations // Arieh Iserles [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2009
ISBN	9780511995569 0-511-99556-3 1-283-33039-3 9786613330390 1-139-13490-6 1-139-12986-4 1-139-13379-9 0-511-50423-3 0-511-50637-6
Edizione	[Second edition.]
Descrizione fisica	1 online resource (xviii, 459 pages) : digital, PDF file(s)
Collana	Cambridge texts in applied mathematics ; ; 44
Disciplina	518/.6
Soggetti	Differential equations - Numerical solutions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface to the first edition; Preface to the second edition; Flowchart of contents; Part I. Ordinary differential equations: 1. Euler's method and beyond; 2. Multistep methods; 3. Runge-Kutta methods; 4. Stiff equations; 5. Geometric numerical integration; 6. Error control; 7. Nonlinear algebraic systems; Part II. The Poisson equation: 8. Finite difference schemes; 9. The finite element method; 10. Spectral methods; 11. Gaussian elimination for sparse linear equations; 12. Classical iterative methods for sparse linear equations; 13. Multigrid techniques; 14. Conjugate gradients; 15. Fast Poisson solvers; Part III. Partial differential equations of evolution: 16. The diffusion equation; 17. Hyperbolic equations; Appendix. Bluffer's guide to useful mathematics: A.1. Linear algebra; A.2. Analysis; Bibliography; Index.
Sommario/riassunto	Numerical analysis presents different faces to the world. For mathematicians it is a bona fide mathematical theory with an applicable

flavour. For scientists and engineers it is a practical, applied subject, part of the standard repertoire of modelling techniques. For computer scientists it is a theory on the interplay of computer architecture and algorithms for real-number calculations. The tension between these standpoints is the driving force of this book, which presents a rigorous account of the fundamentals of numerical analysis of both ordinary and partial differential equations. The exposition maintains a balance between theoretical, algorithmic and applied aspects. This second edition has been extensively updated, and includes new chapters on emerging subject areas: geometric numerical integration, spectral methods and conjugate gradients. Other topics covered include multistep and Runge-Kutta methods; finite difference and finite elements techniques for the Poisson equation; and a variety of algorithms to solve large, sparse algebraic systems.

2. Record Nr.	UNINA9910707426903321
Autore	Doxley Charles A.
Titolo	Implementation of a multichannel serial data streaming algorithm using the Xilinx Serial RapidIO solution // Charles A. Doxley
Pubbl/distr/stampa	Cleveland, Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , August 2016
Descrizione fisica	1 online resource (5 pages) : color illustrations
Collana	NASA/TM ; ; 2016-219117
Soggetti	Algorithms Architecture (computers) Bandwidth Channels (data transmission) Field-programmable gate arrays
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Aug. 30, 2016). "August 2016."
Nota di bibliografia	Includes bibliographical references (page 5).

3. Record Nr.	UNINA9910778187503321
Autore	Engel Susan
Titolo	Real kids [[electronic resource] ] : creating meaning in everyday life // Susan Engel
Pubbl/distr/stampa	Cambridge, Mass., : Harvard University Press, 2005
ISBN	0-674-03649-2
Descrizione fisica	1 online resource (236 p.)
Classificazione	77.55
Disciplina	155.4/13
Soggetti	Cognition in children
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 (p. [197]-210) and index.
Nota di contenuto	What we see and what we miss -- A glance backward: what have we learned about children? -- Spheres of reality in childhood -- Toward a more complete understanding of children -- Why this matters, and to whom.
Sommario/riassunto	Engel argues that the "scientist in a crib" view held by many parents and teachers encourages them to expect more logical reasoning and emotional self-control from children than they possess. She provides a concise and valuable overview of what modern developmental psychologists have learned about children's developing powers of perception and capacity for reasoning, but also suggests new ways of studying children that better capture the truth about their young minds.