

1. Record Nr.	UNINA9910455304303321
Autore	Kraus Johannes
Titolo	Robust algebraic multilevel methods and algorithms [[electronic resource] /] / Johannes Kraus, Svetozar Margenov
Pubbl/distr/stampa	Berlin ; ; New York, : Walter De Gruyter, c2009
ISBN	1-282-37263-7 9786612372636 3-11-021483-0
Descrizione fisica	1 online resource (256 p.)
Collana	Radon series on computational and applied mathematics ; ; 5
Classificazione	SK 540
Altri autori (Persone)	MargenovSvetozar
Disciplina	515.35
Soggetti	Algebras, Linear - Data processing Mathematical analysis Electronic books.
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. [237]-244) and index.
Nota di contenuto	Frontmatter -- Contents -- 1. Introduction -- 2. Algebraic multilevel iteration methods -- 3. Robust AMLI algorithms: Conforming linear finite elements -- 4. Robust AMLI algorithms: Nonconforming linear finite elements -- 5. Schur complement based multilevel preconditioners -- 6. Algebraic multigrid (AMG) -- 7. Preconditioning of Rannacher-Turek nonconforming FE systems -- 8. AMLI algorithms for discontinuous Galerkin FE problems -- 9. AMLI methods for coupled problems -- 10. Practical issues -- Backmatter
Sommario/riassunto	This book deals with algorithms for the solution of linear systems of algebraic equations with large-scale sparse matrices, with a focus on problems that are obtained after discretization of partial differential equations using finite element methods. The authors provide a systematic presentation of the recent advances in robust algebraic multilevel methods and algorithms, e.g., the preconditioned conjugate gradient method, algebraic multilevel iteration (AMLI) preconditioners, the classical algebraic multigrid (AMG) method and its recent modifications, namely AMG using element interpolation (AMGe) and AMG based on smoothed aggregation. The first six chapters can serve as a short introductory course on the theory of AMLI methods and

algorithms. The next part of the monograph is devoted to more advanced topics, including the description of new generation AMG methods, AMLI methods for discontinuous Galerkin systems, looking-free algorithms for coupled problems etc., ending with important practical issues of implementation and challenging applications. This second part is addressed to some more experienced students and practitioners and can be used to complete a more advanced course on robust AMLI and AMG methods and their efficient application. This book is intended for mathematicians, engineers, natural scientists etc.

2. Record Nr.	UNISALENTO991002175139707536
Autore	Madinier, Gabriel
Titolo	La conscience morale / par Gabriel Madinier
Pubbl/distr/stampa	Paris : Presses universitaires de France, 1954
Descrizione fisica	1 v. ; 24 cm
Collana	Initiation philosophique
Disciplina	126
Soggetti	Coscienza
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia