1.	Record Nr.	UNINA9910151937903321
	Autore	Kunkel Peter
	Titolo	Differential-Algebraic Equations [[electronic resource]] : Analysis and Numerical Solution / / Peter Kunkel, Volker Mehrmann
	Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2006 Zurich, Switzerland : , : European Mathematical Society, , [2006]
	ISBN	3037195177
	Descrizione fisica	1 online resource (385 pages)
	Collana	EMS Textbooks in Mathematics (ETB)
	Classificazione	34-xx65-xx
	Soggetti	Differential-algebraic equations Boundary value problems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references (pages 359-371) and index.
	Nota di contenuto	; 1. Introduction -- ; 2. Linear differential-algebraic equations with constant coefficients -- ; 3. Linear differential-algebraic equations with variable coefficients -- ; 4. Nonlinear differential-algebraic equations -- ; 5. Numerical methods for strangeness-free problems -- ; 6. Numerical methods for index reduction -- ; 7. Boundary value problems -- ; 8. Software for the numerical solution of differential-algebraic equations.
	Sommario/riassunto	Differential-algebraic equations are a widely accepted tool for the modeling and simulation of constrained dynamical systems in numerous applications, such as mechanical multibody systems, electrical circuit simulation, chemical engineering, control theory, fluid dynamics and many others. This is the first comprehensive textbook that provides a systematic and detailed analysis of initial and boundary value problems for differential-algebraic equations. The analysis is developed from the theory of linear constant coefficient systems via linear variable coefficient systems to general nonlinear systems. Further sections on control problems, generalized inverses of differential-algebraic operators, generalized solutions, and differential equations on manifolds complement the theoretical treatment of initial value problems. Two major classes of numerical methods for differential-algebraic equations (Runge--Kutta and BDF methods) are discussed

and analyzed with respect to convergence and order. A chapter is devoted to index reduction methods that allow the numerical treatment of general differential-algebraic equations. The analysis and numerical solution of boundary value problems for differential-algebraic equations is presented, including multiple shooting and collocation methods. A survey of current software packages for differential-algebraic equations completes the text.   The book is addressed to graduate students and researchers in mathematics, engineering and sciences, as well as practitioners in industry. A prerequisite is a standard course on the numerical solution of ordinary differential equations. Numerous examples and exercises make the book suitable as a course textbook or for self-study.

2.	Record Nr.	UNINA9910963012203321
	Autore	Walraven Gijsbertus Engelinus Laurentius <1957->
	Titolo	Health and poverty : global health problems and solutions / / Gijs Walraven
	Pubbl/distr/stampa	London ; ; Washington, DC, : Earthscan, 2011
	ISBN	1-280-87304-3
		9786613714350
		1-136-53740-6
		1-136-53739-2
		1-84977-568-0
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (209 p.)
	Disciplina	362.1086942
	Soggetti	Poverty - Health aspects
		Health services accessibility
		Equality - Health aspects
		World health
	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	Health and Poverty: Global Health Problems and Solutions; Copyright; Contents; List of Figures, Tables and Boxes; Foreword;

| Sommario/riassunto | There is growing interest and concern about the unacceptable differentials in health between and within countries. This comes out of the realization that poor people will only be able to prosper, and emerge from poverty, if they enjoy better health. Healthy populations are a precondition for sustainable development. Using a novel combination of the personal studies of patients and description of conditions or diseases, this book provides a highly original and accessible introduction to key issues in global health today. Especially during the past decade, global health initiatives have become a |