

1. Record Nr.	UNINA9910451404603321
Autore	Heyman Jacques
Titolo	Basic structural theory / / Jacques Heyman [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2008
ISBN	1-107-18803-2 1-281-38348-1 9786611383480 0-511-39769-0 0-511-39844-1 0-511-39928-6 0-511-39619-8 0-511-40312-7 0-511-75448-5 0-511-39692-9
Descrizione fisica	1 online resource (xii, 134 pages) : digital, PDF file(s)
Disciplina	624.1/7
Soggetti	Structural analysis (Engineering) - Mathematical models
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 contenuto	Introduction -- Structural assumptions -- Structural equations -- Strength -- Trussed frameworks -- Virtual work -- Structures in bending -- Plastic theory -- Masonry -- The structural state -- Stiffness -- The truss -- Bending stiffness -- Matrix formulation -- Elastic analysis -- Elastic properties: Reciprocal theorems; influence lines; indirect model tests; energy methods -- Methods of calculation: Slope-deflexion equations; moment distribution -- Stability -- Elastic buckling -- Practical behaviour -- Other buckling phenomena -- Appendix A: Virtual work -- Structures in bending -- Trusses -- Appendix B: The plastic theorems -- Appendix C: Buckling calculations.
Sommario/riassunto	This text introduces the basic equations of the theory of structures. Conventional presentations of these equations follow the ideas of elastic analysis, introduced nearly two hundred years ago. The book is written against the background of advances made in structural theory

during the last fifty years, notably by the introduction of so-called plastic theory. The emphasis throughout is on the derivation and application of the structural equations, rather than on details of their solution (nowadays best done by computer), and the numerical examples are deliberately kept simple.

2. Record Nr.	UNINA9910788847703321
Autore	Rodman L.
Titolo	Abstract band method via factorization, positive and band extensions of multivariable almost periodic matrix functions, and spectral estimation / / Leiba Rodman, Ilya M. Spitkovsky, Hugo J. Woerdeman
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2002] ©2002
ISBN	1-4704-0360-9
Descrizione fisica	1 online resource (87 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 762
Disciplina	510 s 515/.724
Soggetti	Lifting theory Factorization (Mathematics) Toeplitz operators
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 (pages 67-70) and index.
Nota di contenuto	""Contents""; ""Chapter 1. Introduction""; ""1.1. Abstract Band Method""; ""1.2. Factorization""; ""1.3. Conventions and Notation""; ""Chapter 2. Abstract Band Method: New Variations""; ""2.1. Nonsymmetric Band Method""; ""2.2. Shiftable Band Structure""; ""2.3. Stability of Band Extensions""; ""2.4. Band Extensions: The Symmetric Case""; ""2.5. Positive Band Extensions: Existence""; ""2.6. Description of Positive Extensions""; ""Chapter 3. Toeplitz and Wiener Algebras of Operator Matrices""; ""3.1. Band Extensions for Wiener Class of Operator Valued Functions on the Unit Circle"" ""3.2. Positive Extensions for Wiener Class of Doubly Infinite Operator Matrices""""3.3. Application to Cyclostationary Processes""; ""Chapter 4.

Positive Extensions in Wiener Classes of Almost Periodic Matrix Functions""; ""4.1. Almost Periodic Functions and Statement of the Problem""; ""4.2. Preliminaries on Almost Periodic Functions and Toeplitz Operators""; ""4.3. Toeplitz Operators Associated with Band""; ""4.4. Positive Extension Problem: Main Results""; ""4.5. Point Excluding Variations""; ""4.6. Stability of Band Extensions""; ""4.7. Positive Measure Extension Problem""
""4.8. Application to Spectral Estimation for ARMA Processes""Chapter
5. Appendix""; ""5.1. Bochner-Phillips Theorem""; ""5.2. Abstract Factorization""; ""5.3. Krein's Theorem on Extension of Positive Functionals""; ""5.4. Invertibility in Banach Algebras""; ""Bibliography""; ""Index""
