

1. Record Nr.	UNISA996490271503316
Autore	Deteix Jean
Titolo	Numerical methods for mixed finite element problems : applications to incompressible materials and contact problems // Jean Deteix, Thierno Diop and Michel Fortin
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	3-031-12616-5
Descrizione fisica	1 online resource (119 pages)
Collana	Lecture Notes in Mathematics ; ; v.2318
Disciplina	620.00151535
Soggetti	Finite element method Mètode dels elements finits Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Contents -- 1 Introduction -- 2 Mixed Problems -- 2.1 Some Reminders About Mixed Problems -- 2.1.1 The Saddle Point Formulation -- 2.1.2 Existence of a Solution -- 2.1.3 Dual Problem -- 2.1.4 A More General Case: A Regular Perturbation -- 2.1.5 The Case -- 2.2 The Discrete Problem -- 2.2.1 Error Estimates -- 2.2.2 The Matricial Form of the Discrete Problem -- 2.2.3 The Discrete Dual Problem: The Schur Complement -- 2.3 Augmented Lagrangian -- 2.3.1 Augmented or Regularised Lagrangians -- 2.3.2 Discrete Augmented Lagrangian in Matrix Form -- 2.3.3 Augmented Lagrangian and the Condition Number of the Dual Problem -- 2.3.4 Augmented Lagrangian: An Iterated Penalty -- 3 Iterative Solvers for Mixed Problems -- 3.1 Classical Iterative Methods -- 3.1.1 Some General Points -- Linear Algebra and Optimisation -- Norms -- Krylov Subspace -- Preconditioning -- 3.1.2 The Preconditioned Conjugate Gradient Method -- 3.1.3 Constrained Problems: Projected Gradient and Variants -- Equality Constraints: The Projected Gradient Method -- Inequality Constraints -- Positivity Constraints -- Convex Constraints -- 3.1.4 Hierarchical Basis and Multigrid Preconditioning -- 3.1.5 Conjugate Residuals, Minres, Gmres and the Generalised Conjugate Residual Algorithm -- The Generalised Conjugate Residual Method --

The Left Preconditioning -- The Right Preconditioning -- The Gram-Schmidt Algorithm -- GCR for Mixed Problems -- 3.2 Preconditioners for the Mixed Problem -- 3.2.1 Factorisation of the System -- Solving Using the Factorisation -- 3.2.2 Approximate Solvers for the Schur Complement and the Uzawa Algorithm -- The Uzawa Algorithm -- 3.2.3 The General Preconditioned Algorithm -- 3.2.4 Augmented Lagrangian as a Perturbed Problem -- 4 Numerical Results: Cases Where $Q = Q$ -- 4.1 Mixed Laplacian Problem -- 4.1.1 Formulation of the Problem.
4.1.2 Discrete Problem and Classic Numerical Methods -- The Augmented Lagrangian Formulation -- 4.1.3 A Numerical Example -- 4.2 Application to Incompressible Elasticity -- 4.2.1 Nearly Incompressible Linear Elasticity -- 4.2.2 Neo-Hookean and Mooney-Rivlin Materials -- Mixed Formulation for Mooney-Rivlin Materials -- 4.2.3 Numerical Results for the Linear Elasticity Problem -- 4.2.4 The Mixed-GMP-GCR Method -- Approximate Solver in u -- 4.2.5 The Test Case -- Number of Iterations and Mesh Size -- Comparison of the Preconditioners of Sect.3.2 -- Effect of the Solver in u -- 4.2.6 Large Deformation Problems -- Neo-Hookean Material -- Mooney-Rivlin Material -- 4.3 Navier-Stokes Equations -- 4.3.1 A Direct Iteration: Regularising the Problem -- 4.3.2 A Toy Problem -- 5 Contact Problems: A Case Where QQ -- 5.1 Imposing Dirichlet's Condition Through a Multiplier -- 5.1.1 and Its Dual -- 5.1.2 A Steklov-Poincaré operator -- Using This as a Solver -- 5.1.3 Discrete Problems -- The Matrix Form and the Discrete Schur Complement -- 5.1.4 A Discrete Steklov-Poincaré Operator -- 5.1.5 Computational Issues, Approximate Scalar Product -- Simplified Forms of the ps: $\int_{EMC} \text{pdfmark} \int_{Subtype} /Span /ActualText (script upper S script upper P Subscript h) /StPNE \text{pdfmark} \int_{StBMC} \text{pdfmarkSPHps:} \int_{EMC} \text{pdfmark} \int_{StPop} \text{pdfmark} \int_{StBMC} \text{pdfmark} \text{Operator and Preconditioning}$ -- 5.1.6 The Formulation -- The Choice of h -- 5.1.7 A Toy Model for the Contact Problem -- The Discrete Formulation -- The Active Set Strategy -- 5.2 Sliding Contact -- 5.2.1 The Discrete Contact Problem -- Contact Status -- 5.2.2 The Algorithm for Sliding Contact -- A Newton Method -- The Active Set Strategy -- 5.2.3 A Numerical Example of Contact Problem -- 6 Solving Problems with More Than One Constraint -- 6.1 A Model Problem -- 6.2 Interlaced Method -- 6.3 Preconditioners Based on Factorisation.
6.3.1 The Sequential Method -- 6.4 An Alternating Procedure -- 7 Conclusion -- Bibliography -- Index.

2. Record Nr.	UNINA9910799285203321
Autore	Stella Attilio
Titolo	The Libri Feudorum (the 'Books of Fiefs') : An Annotated English Translation of the Vulgata Recension with Latin Text
Pubbl/distr/stampa	Boston : , : BRILL, , 2023 ©2023
ISBN	90-04-52917-9
Edizione	[First edition.]
Descrizione fisica	1 online resource (312 pages)
Collana	Medieval Law and Its Practice Series ; ; v.38.
Disciplina	340.5/5
Soggetti	Feudal law - Europe
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- Preface and Acknowledgements -- Abbreviations -- Chapter 1. The Libri feudorum in Modern Historiography -- Chapter 2. The Formation of the Libri feudorum and Its Context -- 1. Before the Libri feudorum: Milan and Lombardy in the Eleventh Century -- 2. The Early Tracts (c. 1100-1136) -- 3. Fiefs and Vassals at the Time of the antiqua -- 4. The Romanisation of the Fief: Obertus de Orto and the antiqua -- 5. The Intermediate Recension Known as ardizzoniana -- 6. The Accursian Recension and the vulgata -- 7. The capitula extraordinaria -- Chapter 3. The Afterlife of the Libri feudorum -- 1. The Libri feudorum and the ius commune from the Thirteenth to the Fifteenth Century -- 2. The Libri feudorum in Late Medieval and Early Modern France -- 3. The Libri feudorum and Feudalism: Open Questions -- Chapter 4. Notes to Translation -- Libri feudorum, compilatio vulgata: Book 1 -- Libri feudorum, compilatio vulgata: Book 2 -- Appendix 1. Capitula Extraordinaria Iacobi de Ardizzone -- Appendix 2. Capitula Extraordinaria Baraterii -- Appendix 3. Edictum de beneficiis Regni Italici -- Appendix 4. Synoptic Table -- Glossary -- Bibliography -- Index to Chapters 1-4 -- Index to the Libri Feudorum and the Appendices -- Index to Legal Sources -- Imperial and Royal Legislation Collected in the Libri Feudorum and the Appendices -- Texts From the Decretum Gratiani Collected in the Libri Feudorum and the Capitula extraordinaria -- References to Legal Sources -- Implicit or Unreferenced Quotations -- Index to Manuscripts.

Sommario/riassunto

This book offers an English translation, a working Latin text, and an up-to-date historical and historiographical overview of the Libri Feudorum, the earliest known collection of feudal law lying at the core of current debates on feudalism.

3. Record Nr.	UNINA9910979484403321
Autore	Saer, Juan José
Titolo	L'arcano / Juan José Saer ; traduzione di Luisa Pranzetti ; con una intervista a Juan José Saer
Pubbl/distr/stampa	Firenze, : Giunti, ©1994 (, stampa 1993)
ISBN	88-09-20365-8
Descrizione fisica	163 p. ; 21 cm
Collana	Narratori Giunti ; 15
Disciplina	863
Locazione	FLFBC
Collocazione	DAM L34.3 SAEJ 01
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
