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Titolo	Finite elements [[electronic resource]] : computational engineering sciences // A.J. Baker
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Finite Elements: Computational Engineering Sciences; Contents; Preface; About the Author; Notations; 1 The Computational Engineering Sciences: an introduction; 1.1 Engineering Simulation; 1.2 A Problem-Solving Environment; 1.3 Weak Formulation Essence; 1.4 Decisions on Forming WSN; 1.5 Discrete WSh Implementations; 1.6 Chapter Summary; References; 2 Problem Statements: in the engineering sciences; 2.1 Engineering Simulation; 2.2 Continuum Mechanics Viewpoint; 2.3 Continuum Conservation Principle Forms; 2.4 Constitutive Closure for Conservation Principle PDEs 2.5 Engineering Science Continuum MechanicsReferences; 3 Some Introductory Material: PDEs, BCs, solutions, discrete concepts; 3.1 Example Linear Heat Conduction Solutions; 3.2 Multidimensional PDEs, Separation of Variables; 3.3 Mathematical Foundation Essence for GWSN; 3.4 A Legacy FD Construction; 3.5 An FD Approximate Solution; 3.6 Lagrange Interpolation Polynomials; 3.7 Chapter Summary; Exercises; References; 4 Heat Conduction: an FE weak statement tutorial; 4.1 A Steady Heat Conduction Example; 4.2 Weak Form

Approximation, Error Extremization

5.6 Global Theory, Asymptotic Error Estimate 5.7 Nonsmooth Data, Theory Generalization; 5.8 Temperature-Dependent Conductivity, Nonlinearity; 5.9 Static Condensation, p-Elements; 5.10 Chapter Summary; Exercises; Computer Labs; References; 6 Engineering Sciences, $n = 1$: GWSH $\{N_k(\cdot)\}$ implementations in the computational engineering sciences; 6.1 Introduction; 6.2 The Euler-Bernoulli Beam Equation; 6.3 Euler-Bernoulli Beam Theory GWSH Reformulation; 6.4 Timoshenko Beam Theory; 6.5 Mechanical Vibrations of a Beam; 6.6 Fluid Mechanics, Potential Flow; 6.7 Electromagnetic Plane Wave Propagation
6.8 Convection-Radiation Finned Cylinder Heat Transfer 6.9 Chapter Summary; Exercises; Computer Labs; References; 7 Steady Heat Transfer, $n > 1$: $n = 2, 3$ GWSH for D E+ BCs, FE bases, convergence, error mechanisms; 7.1 Introduction; 7.2 Multidimensional FE Bases and DOF; 7.3 Multidimensional FE Operations for $\{N_k(\cdot)\}$; 7.4 The $N_k = 1, 2$ Basis FE Matrix Library; 7.5 NC Basis $\{W_S\}$ Template, Accuracy, Convergence; 7.6 The Tensor Product Basis Element Family; 7.7 Gauss Numerical Quadrature, $k = 1$ TP Basis Library; 7.8 Convection-Radiation BC GWSH Implementation
7.9 Linear Basis GWSH Template Unification

Sommario/riassunto

Approaches computational engineering sciences from the perspective of engineering applications. Uniting theory with hands-on computer practice, this book gives readers a firm appreciation of the error mechanisms and control that underlie discrete approximation implementations in the engineering sciences. Key features: Illustrative examples include heat conduction, structural mechanics, mechanical vibrations, heat transfer with convection and radiation, fluid mechanics and heat and mass transport. Takes a cross-discipline continuum mechanics viewpoint.

2. Record Nr.	UNINA9910970915303321
Autore	Johnson Paula C
Titolo	Inner lives : voices of African American women in prison // Paula C. Johnson ; with a foreword by Joyce A. Logan and an afterword by Angela J. Davis
Pubbl/distr/stampa	New York, : New York University Press, c2003
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Descrizione fisica	1 online resource (355 p.)
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references (p. 325-333) and index.
Nota di contenuto	Contents; Foreword by Joyce A. Logan; Preface; Acknowledgments; Introduction; I Analysis of African American Women's Experiences in the U.S. Criminal Justice System; II Profiles and Narratives of African American Women in the U.S. Criminal Justice System; A Currently Incarcerated Women; 1 DonAlda; 2 Cynthia; 3 Mamie; 4 Elizabeth; 5 Rae Ann; 6 Donna; 7 Martha; 8 Marilyn; B Formerly Incarcerated Women; 9 Bettie Gibson; 10 Joyce Ann Brown; 11 Betty Tyson; 12 Karen Michelle Blakney; 13 Ida P. McCray; 14 Millicent Pierce; 15 Joyce A. Logan; 16 Donna Hubbard Spearman C Criminal Justice Officials and Support Networks 17 Judge Juanita Bing Newton; 18 Assistant Warden Gerald Clay; 19 Grace House Administrators: Rochelle Bowles, Mary Dolan, Annie Gonzalez, and Kathy Nolan; 20 Sandra Barnhill, Director, Aid to Children of Imprisoned Mothers (AIM); 21 Rhodessa Jones, Director, Medea Theater Project; 22 Professor Brenda V. Smith; 23 A Family Story: Renay, Judy, Debbie, and Kito; III Conclusions and Recommendations; Afterword by Angela J. Davis; Appendix A: Self-Study Course on African American Women's History; Appendix B: Resource Directory; Notes; Bibliography

Sommario/riassunto

The rate of women entering prison has increased nearly 400 percent since 1980, with African American women constituting the largest percentage of this population. However, despite their extremely disproportional representation in correctional institutions, little attention has been paid to their experiences within the criminal justice system. *Inner Lives* provides readers the rare opportunity to intimately connect with African American women prisoners. By presenting the women's stories in their own voices, Paula C. Johnson captures the reality of those who are in the system, and those who are w
