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Enhance Soldier Performance?"; "CONCLUSIONS AND RECOMMENDATIONS"; "Underconsumption Field Rations: What Can Be Employed to this Problem of Military Strategies Overcome?"; "CONCLUSIONS AND RECOMMENDATIONS"; "Use of Carbohydrate-Electrolyte Solutions for Fluid Replacement"; "CONCLUSIONS AND RECOMMENDATIONS"; "AREAS FOR FUTURE RESEARCH"; "Nutritional Requirements for Work in Cold and High Altitude Environments"; "References"; "Appendixes"

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"Appendix D Letter Military Review Proposals Nutrition of Three from the Biomedical Report: Committee on Research Researcha€?""OVERALL COMMENTS""SPECIFIC PROJECT REVIEWS""OVERALL CONCLUSIONS AND RECOMMENDATIONS""Appendix E Conclusions and Recommendations from the Workshop Report: Body Composition and Physical Performance Submitteda€?""CONCLUSIONS AND RECOMMENDATIONS""CONCLUSIONS""RECOMMENDATIONS""AREAS FOR FUTURE RESEARCH""Appendix F Conclusions and Recommendations from the Workshop Report: Nutritional Needs in Hot Environments Submitted Marcha€?""CONCLUSIONS AND RECOMMENDATIONS"

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| Titolo | Asymptotic methods in the theory of plates with mixed boundary conditions / / Igor V. Andrianov [and three others] |
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Chapter 1 Asymptotic Approaches; 1.1 Asymptotic Series and Approximations; 1.1.1 Asymptotic Series; 1.1.2 Asymptotic Symbols and Nomenclatures; 1.2 Some Nonstandard Perturbation Procedures; 1.2.1 Choice of Small Parameters; 1.2.2 Homotopy Perturbation Method; 1.2.3 Method of Small Delta; 1.2.4 Method of Large Delta; 1.2.5 Application of Distributions; 1.3 Summation of Asymptotic Series; 1.3.1 Analysis of Power Series; 1.3.2 Pade Approximants and Continued Fractions; 1.4 Some Applications of PA
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1.4.2 Removing Singularities and Reducing the Gibbs-Wilbraham Effect; 1.4.3 Localized Solutions; 1.4.4 Hermite-Pade Approximations and Bifurcation Problem; 1.4.5 Estimates of Effective Characteristics of Composite Materials; 1.4.6 Continualization; 1.4.7 Rational Interpolation; 1.4.8 Some Other Applications; 1.5 Matching of Limiting Asymptotic Expansions; 1.5.1 Method of Asymptotically Equivalent Functions for Inversion of Laplace Transform; 1.5.2 Two-Point PA; 1.5.3 Other Methods of AEFs Construction; 1.5.4 Example: Schrodinger Equation
1.5.5 Example: AEFs in the Theory of Composites
1.6 Dynamical Edge Effect Method; 1.6.1 Linear Vibrations of a Rod; 1.6.2 Nonlinear Vibrations of a Rod; 1.6.3 Nonlinear Vibrations of a Rectangular Plate; 1.6.4 Matching of Asymptotic and Variational Approaches; 1.6.5 On the Normal Forms of Nonlinear Vibrations of Continuous Systems; 1.7 Continualization; 1.7.1 Discrete and Continuum Models in Mechanics; 1.7.2 Chain of Elastically Coupled Masses; 1.7.3 Classical Continuum Approximation; 1.7.4 "Splashes"; 1.7.5 Envelope Continualization; 1.7.6 Improvement Continuum Approximations
1.7.7 Forced Oscillations
1.8 Averaging and Homogenization; 1.8.1 Averaging via Multiscale Method; 1.8.2 Frozing in Viscoelastic Problems; 1.8.3 The WKB Method; 1.8.4 Method of Kuzmak-Whitham (Nonlinear WKB Method); 1.8.5 Differential Equations with Quickly Changing Coefficients; 1.8.6 Differential Equation with Periodically Discontinuous Coefficients; 1.8.7 Periodically Perforated Domain; 1.8.8 Waves in Periodically Nonhomogenous Media; References; Chapter 2 Computational Methods for Plates and Beams with Mixed Boundary Conditions; 2.1 Introduction
2.1.1 Computational Methods of Plates with Mixed Boundary Conditions
2.1.2 Method of Boundary Conditions Perturbation; 2.2 Natural Vibrations of Beams and Plates; 2.2.1 Natural Vibrations of a Clamped Beam; 2.2.2 Natural Vibration of a Beam with Free Ends; 2.2.3 Natural Vibrations of a Clamped Rectangular Plate; 2.2.4 Natural Vibrations of the Orthotropic Plate with Free Edges Lying on an Elastic Foundation; 2.2.5 Natural Vibrations of the Plate with Mixed Boundary Conditions "Clamping-Simple Support"; 2.2.6 Comparison of Theoretical and Experimental Results
2.2.7 Natural Vibrations of a Partially Clamped Plate

Sommario/riassunto

Covers the theoretical background of asymptotic approaches and its applicability to solve mechanical engineering-oriented problems of plates with mixed boundary conditions. Asymptotic Methods in the Theory of Plates with Mixed Boundary Conditions comprehensively covers the theoretical background of asymptotic approaches and its applicability to solve mechanical engineering-oriented problems of structural members, primarily plates (statics and dynamics) with mixed boundary conditions. The first part of this book is devoted to the description of asymptotic method