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Titolo	Hearing on National Defense Authorization Act for fiscal year 2021 and oversight of previously authorized programs before the Committee on Armed Services, House of Representatives, One Hundred Sixteenth Congress, second session : Subcommittee on Seapower and Projection Forces hearing on Air Force projection forces aviation programs and capabilities related to the 2021 president's budget request : hearing held February 27, 2020
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Nota di contenuto	Front Cover; Boundary Value Problems and Partial Differential Equations: Student Solutions Manual; Copyright Page; TABLE OF CONTENTS; Chapter 0. Ordinary Differential Equations; 0.1 Homogeneous Linear Equations; 0.2 Nonhomogeneous Linear Equations; 0.3 Boundary Value Problems; 0.4 Singular Boundary Value Problems; 0.5 Green's Functions; Miscellaneous; Chapter 1. Fourier Series and Integrals; 1.1 Periodic Functions and Fourier Series; 1.2 Arbitrary Period and Half-Range Expansions; 1.3 Convergence of Fourier Series; 1.4 Uniform Convergence; 1.5 Operations on Fourier Series 1.6 Mean Error and Convergence in Mean 1.7 Proof of Convergence; 1.8 Numerical Fourier Coefficients; 1.9 Fourier Integral; 1.10 Complex Methods; 1.11 Applications of Fourier Series and Integrals; Miscellaneous Exercises; Chapter 2. The Heat Equation; 2.1 Derivation and Boundary Conditions; 2.2 Steady-State Temperatures; 2.3 Example: Fixed End Temperatures; 2.4 Example: Insulated Bar; 2.5 Example: Different Boundary Conditions; 2.6 Example: Convection; 2.7 Sturm-Liouville Problems; 2.8 Expansion in Series of Eigenfunctions; 2.9 Generalities on the Heat Conduction Problem 2.10 Semi-Infinite Rod 2.11 Infinite Rod; 2.12 The Error Function; Miscellaneous; Chapter 3. The Wave Equation; 3.1 The Vibrating String;

3.2 Solution of the Vibrating String Problem; 3.3 D'Alemberts Solution; 3.4 One-Dimensional Wave Equations: Generalities; 3.5 Estimation of Eigenvalues; 3.6 Wave Equation in Unbounded Regions; Miscellaneous; Chapter 4. The Potential Equation; 4.1 Potential Equation; 4.2 Potential in a Rectangle; 4.3 Further Examples for a Rectangle; 4.4 Potential in Unbounded Regions; 4.5 Potential in a Disk; 4.6 Classification and Limitations; Miscellaneous Exercises

Chapter 5. Higher Dimensions and Other Coordinates 5.1 Two-Dimensional Wave Equation: Derivation; 5.2 Three-Dimensional Heat Equations: Vector Derivation; 5.3 Two-Dimensional Heat Equation: Solution; 5.4 Problems in Polar Coordinates; 5.5 Bessel's Equation; 5.6 Temperature in a Cylinder; 5.7 Vibrations of a Circular Membrane; 5.8 Some Applications of Bessel Functions; 5.9 Spherical Coordinates; Legendre Polynomials; 5.10 Some Applications of Legendre Polynomials; Miscellaneous; Chapter 6. Laplace Transform; 6.1 Definition and Elementary Properties; 6.2 Partial Fractions and Convolutions

6.3 Partial Differential Equations 6.4 More Difficult Examples; Miscellaneous Exercises; Chapter 7. Numerical Methods; 7.1 Boundary Value Problems; 7.2 Heat Problems; 7.3 Wave Equation; 7.4 Potential Equation; 7.5 Two-Dimensional Problems; Miscellaneous

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#### Sommario/riassunto

This student solutions manual accompanies the text, *Boundary Value Problems and Partial Differential Equations*, 5e. The SSM is available in print via PDF or electronically, and provides the student with the detailed solutions of the odd-numbered problems contained throughout the book. Provides students with exercises that skillfully illustrate the techniques used in the text to solve science and engineering problems. Nearly 900 exercises ranging in difficulty from basic drills to advanced problem-solving exercises. Many exercises based on current engineering

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