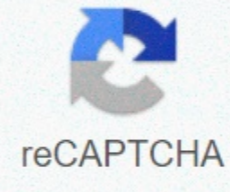




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Flexible organization allows for different course configurations and weight (theory, applications and techniques and concepts). Motivational problems begin most chapters with a discussion of a physics or technical problemApplications-driven sections are included in the chapter on linear second-rate equations. Review of linear algebraic equations and matrices - The chapter on matrix methods for linear systems (Chapter 9) begins with two introductory paragraphs on the theory of linear algebraic systems and matrix algebra. Review of integration techniques appendix provides a review of the methods for integrating functions analytically. This provides students with a useful update before starting the differential equation course. New! Examples have been added dealing with variation of parameters, Laplace transforme, Gamma function, and eigenvectors (among others). Robust options for exercises and assignments give instructors flexibility and students a wide range of practices. Projects relating to the material covered are listed at the end of each chapter. They may involve more challenging applications, delve deeper into theory, or introduce more advanced subjects. Exercises, which are graded in difficulty and varied by type, include a wide range of applications such as barometer pressure, compound interest, the mathematical equivalence of an impulse force and a speed boost. Chapter Summaries and Review Problems at the end of each chapter help students to fully understand learning and promote knowledge retention. Technical writing exercises help students develop their communication skills, an essential aspect of professional ability. Optional use of Mathematics®, MATLAB® and maple™ computer software allows students to conduct numerical experiments and tackle realistic applications that provide additional insight into the subject. Online Manuals for Maple, MATLAB, and Mathematica offer sample spreadsheets and suggestions for incorporating these technologies into the courses. New to MyLab Math For the first time with this edition, MyLab™ Math is available for differential equations. MyLab Math is an online homework, tutorial and assessment program designed to work with this text to engage students and improve results. Within their structured environment, students practice what they learn, test their understanding, and pursue a personalized curriculum that helps them absorb course material and understand difficult concepts. NOTE: This text requires a title-specific MyLab Math access set. The title-specific access package provides access to Nagle/Saff/Snider, Fundamentals of Differential 9/e accompanys MyLab course ONLY. Exercises with instant feedback – Nearly 750 hand-railling exercises are based on textbook exercises and regenerate algorithmically to give students unlimited opportunity to practice and master. 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The Pearson eText offers interactive links throughout so students can watch videos of important examples they read. Learning ™ helps instructors generate class discussion, customize lectures, and promote peer-to-peer learning with real-time analytics. As a student response tool, Learning Catalytics uses students' smartphones, tablets, or laptops to engage them in more interactive tasks and thinking. Help students develop critical thinking skills. Monitor the answers to find out where students are struggling. Rely on real-time data to adjust your learning strategy. Automatically share students for discussion, teamwork, and peer-to-peer learning. Accessibility and performance go hand in hand. Compatible with jaws screen reader, MyLab Math enables you to read and interact with multi-choice problem types and free responses through keyboard controls and mathematical notation input. MyMathLab also works with screen magnifiers, including ZoomText, MAGic, and SuperNova. And all MyMathLab videos have subtitles. For more information, at comprehensive character book with improved reporting functionality allows for effective course management. The Reporting Dashboard provides insights into viewing, analyzing, and reporting learning outcomes. Student performance data is presented at the class, section, and program level in an accessible, visual way to make all information available to keep students on track. Item Analysis tracks class-wide understanding of exercises to refine class lectures or adjust the course/department curriculum. Just-in-time teaching has never been easier! New in the book Several pedagogical changes were made, including the reinforcement of the distinction between phase plan solutions and actual pathways in Chapter 5 and the incorporation of matrix and Jacobean formulations into autonomous systems. New problems added to exercise sets deal with topics like axon gating variables and oscillations of a helium-filled balloon on a wire. Additionally, new problems accompany the new projects that focus on economic models, disease control, synchronization, signal propagation, and phase plan analyses of neural responses. New examples have been added dealing with variation of parameters, Laplace transforme, Gamma function, and eigenvectors (among others). Content Updates Chapter 1 has a new project called Applications to Economics dealing with models of an agricultural economy as well as capital growth. Chapter 4 includes a new project called Gravity Train, which calls for readers to take advantage of differential equations in the design of an underground tunnel from Moscow to St. Petersburg, Russia, using gravity for propulsion. Chapter 5 has two new projects. The 2014-2015 Ebola epidemic describes a system of differential equations for modeling for the spread of the disease in West Africa. The model includes such features as contact tracking, number of contacts, likelihood of infection, and the effect of isolation. Phase-locked loops form the theme of a new project that uses differential equations to analyze a technique for measuring or matching high-frequency radio hoses. Chapter 7, the Laplace Transforms chapter, has been updated so that treatments for discontinuous and periodic functions are now divided into two sections that are more appropriate for 50 minutes of lectures: Section 7.6 Transforms of Discontinuous Features and Section 7.7 Transforms of Periodic and Power Functions. Chapter 10 has a new project that expands the analysis of wave and heat ideals to explore the telegraph and cable formations. Appendix G is a new supplement that includes a list of commercial software and freeware for directional fields, phase portraits, and numerical methods for solving differential equations. 1. Introduction1.1 Background1.2 Solutions and initial value problems1.3 Direction fields1.4 Euler2's approach. First-Order Differential Equations2.1 Introduction: Movement of a Descending Body2.2 Separable Equations2.3 Linear Equations2.4 Exact Equations2.5 Special Integration Factors2.6 Substitutions and Transformations3. Mathematical models and numerical methods involving First Order Equations3.1 Mathematical Modeling3.2 Split Analysis3.3 Heating and Cooling of Buildings3.4 Newtonian Mechanics3.5 Electrical Circuit3.6 Improved Euler's Method3.7 Higher-Order Numerical Methods: Taylor and Runge-Kutta4. Linear Equations4.1 Introduction: Mass-spring oscillator4.2 Homogeneous Linear Equations: The general solution4.3 Perennials with complex Roots4.4 Nonhomogeneous equations: Method of indeterminate coefficients4.5 Superposition principle and Un Un Determined Coefficients Revisited4.6 Variation of Parameters4.7 Variable-Coefficient Equations4.8 Qualitative considerations for variable coefficient and non-linear equations4.9 A closer look at Free Mechanical Vibration4.10 A closer look at forced mechanical vibrations5. Introduction to Systems and Phase Aircraft Analysis5.1 Interconnected Fluid Tanks5.2 Elimination Method for Systems with Constant Coefficients5.3 Solution Systems and Higher Order Equations Numeric 5.4 Introduction to Phase Plane5.5 Applications for Biomechanics: Epidemic and Tumor Growth Model5.6 Coupled Mass-Spring Systems5.7 Electrical Systems5.8 Dynamical Systems, Poincaré Maps, and Chaos6. Theory of higher order linear differential equation6.1 Basic theory of linear differential equations6.2 Homogeneous linear equations with constant coefficients6.3 Indeterminate coefficients and Annihilator Methods6.4 Method of variation of parameters7. Laplace Transforms7.1 Introduction: A Blending Problem7.2 Definition of Laplace Transform7.3 Properties of Laplace Transform7.4 Inverse Laplace Transform7.5 Solution Initial Value Problems7.6 Transforms of Discontinuous Functions7.7 Transforms of Periodic and Power Functions7.8 Convolution7.9 Impulses and Dirac Delta Function7.10 Solution Linear Systems with Laplace Transforms8. Series Solutions for Differential Equations8.1 Introduction: Taylor Polynomial Approx8.2 Power Series and Analytical Functions8.3 Power Series Solutions for Linear Differential Equations8.4 Equations with Analytical Coefficient8.5 Cauchy-Euler (Equidimensional) Equations8.6 Method for Frobenius8.7 Find another linear independent solution8.8 Special Functions. Matrix Methods for Linear Systems9.1 Introduction9.2 Review 1: Linear Algebraic Equations9.3 Review 2: Matrices and Vectors9.4 Linear Systems in Normal Form9.5 Homogeneous Linear Systems with Constant Coefficient9.6 Complex Eigenvalues9.7 Nonhomogeneous linear Systems9.8 Matrix Exponential Function10. Partial Differential Equations10.1 Introduction: A Model for Heat Flow10.2 Method of Separation of Variables10.3 Fourier Series10.4 Fourier Cosine and Sine Series10.5 The Heat Equation10.6 The Wave Equation10.7 Laplace's EquationAppendix A Newton's MethodAppendix B Simpson's RuleAppendix C Cramer's RuleAppendix D Method for At Least SquaresAppendix E Runge-Kutta Procedure for n Equations Format Website ISBN-13: 9780134659336 Online Purchase Price \$104.99 Availability Students, buy access Director's Review Copy for fundamentals of differential equations , 9th Edition Instructor's Solutions Manual (Download for fundamental differential equations, 9e, and for fundamentals of differential equations with limit value problems, 7th Edition View order information for Nagle, Saff & amp; Snider ©2018 | Pearson | 720 pp Nagle, Saff & amp; Snider ©2018 | Pearson Format Website ISBN-13: 9780134659282 Online Purchase Price \$59.99 Availability Nagle, Saff & amp; Snider ©2018 | Pearson Format Website ISBN-13: 9780134659336 Online Purchase Price \$104.99 Students, Purchase Access Availability Nagle, Saff & amp; Snider ©2018 | Pearson Format Access Code Card ISBN-13: 9780134764832 Suggested Retail Price \$126.65 Availability Nagle, Saff & amp; Snider ©2018 | Pearson | 720 pp Format Unbound (Saleable) ISBN-13: 9780321977151 Suggested Retail Price \$139.99 Availability Nagle, Saff, Snider & amp; Snider ©2018 | Pearson Format Unbound (Saleable) with Admission Ticket ISBN-13: 9780135997901 Suggested Retail Price \$153.32 Availability Nagle, Saff & amp; Snider ©2018 | Pearson Format Unbound (Saleable) with Pass ISBN-13: 9780134768731 Suggested Retail Price \$166.65 Availability Nagle, Saff & amp; Snider ©2018 | Pearson | 720 pp Format Cloth ISBN-13: 9780321977069 Suggested Retail Price \$206.65 Availability Nagle, Nagle, Saff, Snider & amp; Snider ©2018 | Pearson Format Cloth Bound with Admission Ticket ISBN-13: 9780135997871 Suggested Retail Price \$219.99 Availability Nagle, Saff & amp; Snider ©2018 | Pearson Format Cloth Package ISBN-13: 9780134768748 Suggested Retail Price \$233.32 Availability Availability Online Purchase Price \$219.99 This package includes: Nagle, Saff & amp; Snider ©2018 Cloth Nagle ©2018 Password Card Pack ISBN-9780135997901 Availability Online Purchase Price \$153.32 This package includes: Nagle, Saff & amp; Snider ©2018 Unbound (Saleable) Nagle ©2018 Password Card Pack ISBN-9780134768748 Availability Online Purchase Price \$233.32 This package includes: Nagle , Saff & amp; Snider ©2018 Cloth Nagle, Saff & amp; Snider ©2018 Password Card Pack ISBN-9780134768731 Availability Online Purchase Price \$166.65 This package includes : Nagle, Saff & amp; Snider ©2018 Unbound (Saleable) Nagle, Saff & amp; Snider ©2018 Unbound (Saleable) Nagle, Saff & amp; Snider ©2018 Password Nagle Card, Saff & amp; Snider ©2012 Clotial Different Equations (Advanced Math) Math)