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This supplement is intended to teach the reader how to solve statics problems using Mathematica. It is closely coupled to the accompanying Statics text and works through many of the sample problems for each chapter in detail. While this supplement suggests ways to use Mathematica to enhance your understanding of statics and teach you efficient computational skills, you may browse the Mathematica manual and develop your own methods for solving problems

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using the software. The manual was created in Mathematica and demonstrates how quality technical documents can be created entirely using the software, The manual consists of 11 chapters. Chapter 1 is a general introduction to mathematica that concludes with a sample application and can be studied while reading Chapter 1 of the accompanying Statics text. The following 10 chapters present appropriate Mathematica solutions for the sample problems given in the main text. Chapter 1 - Using Mathematica Computational Software Numerical Calculation Working with Functions Symbolic Calculations Solving Algebraic Equations Graphs and Plots Application of Mathematica to a Statics Problem As well as providing solutions to the sample problems from the text, this manual also includes the following topics: Mathematica as a Vector Calculator; Using Mathematica for Other Matrix Calculations; Scalar Dot Product; Vector or Cross Product Between Two Vectors; Parametric Solutions; Solution of Nonlinear Algebraic Equations; Numerical Symbolic Integration; Three-Dimensional Scatter Plots; Discontinuity Functions; Cables; Wedges; Belt Friction; Ratio of Tension vs. the Coefficient of Friction, the Angle of Contact, and the Coefficient of Friction and Contact Angle; Principle Second Moments of Area; Eigenvalue Problems

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