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where the first term to the right of the equal sign is the general solution and the second is the particular solution. For our case, $v(0) = 0$, so the final solution is $(e^{-t} \cos t - \sin t) v(1) = ?$ (b) The numerical solution can be implemented as $(0) \ 2 \ 19.62 \ 68.1 \ 12.5 \ (2) \ 0 \ 9.81 \ ? \ ? \ ? \ ? \ ? \ v = + \ (19.62) \ 2 \ 6.2087 \ 68.1 \ 12.5 \ (4) \ 19.62 \ 9.81 \ ? \ ? \ ? \ ?$

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Here are the functions: `function V=Vol(h, r1, h1, r2, h2) V = VCyl(r1, h1) + VFus(r1, r2, h2); if h <= 0 V = 0; elseif h < h1 V = VCyl(r1, h); elseif h < h1 + h2 r2h = r1 + (r2 - r1) / h2 * (h - h1); V = VCyl(r1, h1) + VFus(r1, r2h, h - h1); end end function V=VCyl(r, y) V = pi * r ^ 2 * y; end function V=VFus(r1, r2, h2) V = pi * h2 / 3 * (r1 ^ 2 + r2 ^ 2 + r1 * r2); end Here is a script that uses the functions to develop a plot of volume versus height: clc,clf h=[-1:0.5:16]; r1=4; H1=10 ...`

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A comprehensive and detailed treatment of classical and contemporary numerical methods for undergraduate students of engineering. The text emphasizes how to apply the methods to solve practical engineering problems covering over 300 projects drawn from civil, mechanical and electrical engineering.

The fifth edition of Numerical Methods for Engineers with Software and Programming Applications continues its tradition of excellence. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Users will find use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros. Also, many, many more challenging problems are included. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering

This text emphasizes the intelligent application of approximation techniques to the type of problems that commonly occur in engineering and the physical sciences. The authors provide a sophisticated introduction to various appropriate approximation techniques; they show students why the methods work, what type of errors to expect, and when an application might lead to difficulties; and they provide information about the availability of high-quality software for numerical approximation routines. The techniques covered in this text are essentially the same as those covered in the Sixth Edition of these authors' top-selling Numerical Analysis text, but the emphasis is much different. In Numerical Methods, Second Edition, full mathematical justifications are provided only if they are concise and add to the understanding of the methods. The emphasis is placed on describing each technique from an implementation standpoint, and on convincing the student that the method is reasonable both mathematically and computationally.

This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Student Solutions Manual contains worked-out solutions to many of the problems. It also illustrates the calls required for the programs using the algorithms in the text, which is especially useful for those with limited programming experience.