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11.1 We will illustrate two different methods for solving this problem: (1) separation of variables, and (2) Laplace transform.

g v dv c dt

m Separation of variables: Separation of variables gives  $g c v dv dt = 1 m$  The integrals can be evaluated as  $c \ln g v m t C$   $c/m$  where  $C =$  a constant of ...

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Step 1: Start. Step 2: In  
itialize sum and count to  
zero. Step 3: Exa mine  
top car d. Step 4: If it says  
“ e nd of data ” proceed  
to step 9; otherwise,  
proce ed to next step.  
Step 5: Add v alue from  
top card to sum. Step 6:  
In crease count b y 1.  
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Write the MATLAB code that declares the values and evaluates the mathematical expression.

%Declare the values of x and z.  $x=5.3$ ;  $z=7.8$ ;

%Expression of y.  $y = (x*z / (x/z)^2) + (14*x^2) - (0.8*z^2)$

Press the run button to execute the code. The output of the code is,  $y =$ .

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25.6 (a) The analytical  
solution can be derived  
by separation of  
variables.  $dy y = 1 + 2x$   
 $dx. 2y = x + x^2 + C$   
Substituting the initial

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conditions yields  $C = 2$ .

Substituting this value  
and solving for  $y$  gives

the final result  $y = (x^2 + x + 2)^{2/4}$ .

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PT1.1 MOTIVATION

Numerical methods are techniques by which mathematical problems are formulated so that they can be solved with arithmetic operations.

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Underlying any engineering application is

the use of Numerical

Methods. Numerical

Methods is a manner in

which 'discretization' of

solutions can be achieved

rather than analytical

solutions (eg. integration,

differentiation, ordinary

differential equations and

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summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods.

Helpful separate Appendices. "Getting Started with MATLAB" and "Getting Started with Mathcad" which make excellent references.

Numerous new or revised problems are drawn from actual

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in engineering. Users will find use of files for many popular software packages, specifically MATLAB® , Excel® with VBA, and Mathcad® . There is also material on developing MATLAB® m-files and VBA macros.

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solutions of partial differential equations that arise in engineering and science. Each method is accompanied by at least one fully worked-out example showing essential details involved in preliminary hand calculations, as well as computations in MATLAB.

Provides an introduction

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