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\ "Calculus by  
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3.7 The Two  
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equations are  
solved in  
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dents in  
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plinary  
research in  
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to solve

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illustrates each  
chapter by a  
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demonstrate that  
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differential  
equations are  
powerful tools  
for modeling a



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A large variety of  
phenomena  
influencing our  
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differential

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(PDEs). The  
author provides  
all the theory  
and tools  
necessary to  
solve problems  
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approximate, and  
numerical  
methods.

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solutions  
provided by  
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the MATLAB PDE  
Toolbox, and  
those obtained

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more easily than  
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emphasizes the  
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interpretation  
of mathematical  
solutions and  
introduces  
applied  
mathematics  
while presenting  
differential  
equations.



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includes Fourier  
series,  
orthogonal  
functions,  
boundary value  
problems,  
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transform  
methods. This  
text is ideal  
for readers  
interested in

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engineering, and  
applied  
mathematics.

This textbook is  
for the  
standard, one-  
semester, junior-  
senior course

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by the title

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Problems;" The

audience usually  
consists of stu  
dents in

mathematics,  
engineering, and  
the physical

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Methods for  
solving those  
equations on  
bounded and  
unbounded  
domains. Methods  
include  
eigenfunction  
expansions or  
separation of  
variables, and  
methods based on  
Fourier and  
Laplace

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transforms.  
Prerequisites  
include calculus  
and a post-  
calculus  
differential  
equations  
course. There  
are several  
excellent texts  
for this course,  
so one can  
legitimately ask  
why one would

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wish to write  
another. A  
survey of the  
content of the  
existing titles  
shows that their  
scope is broad  
and the analysis  
detailed; and  
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exceed five  
hundred pages in  
length. These  
books generally

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have enough material for two, three, or even four semesters. Yet, many undergraduate courses are one-semester courses. The author has often felt that students become a little



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uncomfortable

when an  
instructor jumps  
around in a long  
volume searching  
for the right  
topics, or only  
partially  
covers some  
topics; but they  
are secure in  
completely  
mastering a  
short, well-

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defined  
introduction.

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provide a brief,

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Drawing on his

decade of

experience

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equations  
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effective new  
approach to  
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is equal parts  
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models which  
give rise to  
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equations  
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author explores

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problems and  
their use in  
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discussion of  
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and singular  
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differential  
equations gives  
instructors an



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perspective of  
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that  
differential  
equations are  
about  
applications.

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illuminates the  
mathematical  
theory in the  
text with a wide  
variety of  
applications  
that will appeal  
to students in

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engineering, the  
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economics and  
mathematics.

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likely to find  
that the first  
four or five  
chapters are  
suitable for a  
first course in  
the subject.  
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exercises, this  
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