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MATHEMATICS, 8E

makes rigorous

mathematical topics

accessible to today's

learners by

emphasizing visuals,

numerous examples,

and interesting

mathematical models.

New Math in Context

broadens the

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connections by

demonstrating how

mathematical

concepts are applied

to current engineering

problems. The reader

has the flexibility to

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not be available in the
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Understanding of How

Key Components

Work Using realistic

examples from

everyday life,

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(motion of balls in air

or during impact) and

vehicle motions,

Applied Dynamics

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emphasizes the applications of dynamics in engineering without sacrificing the fundamentals or rigor.

The text provides a detailed analysis of the principles of dynamics and vehicle motions analysis. An example included in the topic of collisions is the famous

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"Immaculate

Reception," whose

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Stability and

Response Analysis in

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three-dimensional

Newtonian

mechanics, it covers

analytical mechanics,

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and describes
Mathematics
Lagrange's and

Kane's equations. It

also examines stability

and response

analysis, and

vibrations of

dynamical systems. In

addition, the text

highlights a

developing interest in

the industry—the

dynamics and stability

of land vehicles.

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*Contains Lots of
Illustrative Examples
In addition to the
detailed coverage of
dynamics
applications, over 180
examples and nearly
600 problems richly
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Analytical mechanics,

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systems, including

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dynamics courses, as

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and analysis of land

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Dynamics can also be

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Concepts and

analytical techniques

that apply to these

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topics and to better

introduce the applied

mathematics that is

needed both to

understand classical

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results and to model
novel systems. A

common set of

formulation, Manual

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solution methods is
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stationary media and
then to fluid

mechanics,

convective heat or
mass transfer, and

systems involving

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*various kinds of
coupled fluxes.*

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turbulence * Improved
organization, including
the establishment of a
more integrative
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and analytical
techniques that apply
to all transport
processes **

*Mathematical
techniques are
introduced more*

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students with a better
foundation for more
complicated topics
discussed in later
chapters*

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and some basic
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equations,
special
functions and
Laplace
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analysis, partial**

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analysis and
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applications to
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special functions

(Legendre and Bessel

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the back of the book.

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more.

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in all phases of

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increasingly. This text is
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study the voluminous shell literature. Beyond being primarily a textbook, it is intended also for self study by practising engineers who would like to learn more about the behaviour of shells. The book has two parts: Part I deals with shells of isotropic materials. In this part the mathematical

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formulations are introduced involving curvilinear coordinates.

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Lectures? Not

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which solution has

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allied disciplines

have to study as

part of their

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analysis of
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transform, Mellin
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then examines
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equations with
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variables applied***

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initial boundary

value problems

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heat, wave and

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as the subject

has wide

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exercises and
examples
throughout, each
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differential

equations (PDEs),

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