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bodies can be tricky.
The first and simplest
approach is to find
axes of symmetry: a
circle with uniform
mass distribution, for
instance, is pretty
easy to assess. Other
bodies can be
separated into parts
and subsystems and
assessed in that way.

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The fundamental
equations of the
electrodynamics of
continuous media are
obtained by averaging
the equations for the
electromagnetic field

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in a vacuum. The form of the equations of macroscopic electrodynamics and the significance of the quantities appearing in them depend on the physical nature of the medium and on the way in which the field varies with time.

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problem for the
student is to connect

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the rather abstract mathematical notion of a tensor to the physics of continuous media. To this end, the properties of tensors are developed in parallel with the physical notions of stress and strain.

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**Continuum
mechanics -
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relations in Volume II,
as well as several
initial-boundary value
problems designed to
illustrate various
nonlinear phenomena

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also in Volume II; and sections on the so-called Eshelby problem and the effective behavior of two-phase materials in Volume III. There are a number of Worked Examples and Exercises at the end of each chapter which

Course of

Theoretical Physics

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Physics Today: Vol
14 ...**

1.5. EIGENVALUE
PROBLEMS 1.5

Eigenvalue Problems

The eigenvalue

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problem, for matrices,
reads: Given a matrix

$A \in \mathbb{R}^{n \times n}$, find

some/all of the set of

vectors $\{v_i\}_{i=1}^n$ and

numbers $\{\lambda_i\}_{i=1}^n$

such that: $Av_i = \lambda_i v_i$.

(1.45) In general, for a

vector y , the linear

operation (matrix-

vector multiplication)

Ay can be thought of

in terms of rotations ...

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based approach to
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media. The book's
problems and detailed
solutions make it an
ideal companion text
...

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Physics ...

In this work we study
the relativistic
mechanics of

continuous media on
a fundamental level

using a manifestly
covariant proper time
procedure. We

formulate equations of
motion and continuity

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(and constitutive
equations) that are
the starting point for
any calculations
regarding continuous
media. In the force
free limit, the standard
relativistic equations
are regained, so that
these equations ...

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undergraduate and
postgraduate students
in physics and applied
mathematics, this
textbook has been
constructed as a set
of problems followed
by detailed solutions.
Topics are grouped
under the two main
headings of fluid
mechanics and the

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Continuum
Mechanics - Physics
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Continuity for Fluids
When fluids move through a full pipe, the volume of fluid that enters the pipe must equal the volume of fluid that leaves the

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pipe, even if the diameter of the pipe changes. This is a restatement of the law of conservation of mass for fluids.

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This book presents
the nonlinear theories
of continuum
thermomechanics.
Through out 1
emphasize issues that
are foundational in

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nature, and seek results common to materials of arbitrary symmetry. The central part of the book deals with thermoelastic bodies with heat conduction and viscosity, including the inviscid or ideal dissipation less bodies.

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