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is freely used.
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to present the
subject in
such a
manner as to
familiarize the
student with
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processes. For
this reason
the solutions
of problems
have been
treated as
applications of
general
formulas. The
solution by
this method is
often more
lengthy than
by special
methods; still,
it has
advantages
over the
latter,
because it
establishes a
uniformity in
the process.
My experience
has shown the

importance of
applying the
fundamental
equations to a
great variety
of problems. I
have,
therefore, in
Article 24, and
Chapters IV.
and X., given
a large
number and a
considerable
variety of
problems to
be solved by
the general
equations
under which
they
respectively
fall. In the
revision I have
been aided
not only by
my own
experience
with the use
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edition in the
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but also by the friendly advice and criticism of several professors, that of colleges who have used the work. The result has been several pages have been rewritten, some definitions changed, and the typographical errors corrected. Several new pages in the latter part of the work have been added. I am especially indebted to Professor E. T. Quimby, of Dartmouth

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students will grasp challenging concepts in introductory mechanics. A complete exposition of the fundamentals of classical mechanics, this proven and enduring introductory text is a standard for the undergraduate Mechanics course. Numerical worked examples increased students' problem-solving skills, while textual discussions aid in student understanding

of theoretical material through the use of specific cases.

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Excerpt from Analytical Mechanics for Students of Physics and Engineering
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Bertrand's theorem, proof that action is least, spontaneous symmetry breakdown, constrained Hamiltonian systems, non-integrability criteria, KAM theory, classical field theory, Lyapunov functions, geometric phases and Poisson manifolds. Providing worked examples, end-of-chapter problems, and discussion of ongoing research in the field, it is suitable for advanced

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formalism, and the Hamilton-Jacobi equation. The book concludes with a chapter outlining various electromechanical models that readers can implement and adapt themselves. Bridges theory and practice by providing readers techniques for solving common problems through mechanical, electrical, and electromechanical models alongside the underlying

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