University of Southampton
Faculty of Engineering, Science & Mathematics

Force, Motion & Energy

Martin Counihan
Second Edition (March 2010)

Preface

Force, Motion and Energy is an introductory-level university course
module covering topics in classical mechanics and electromagnetism. It is
based on a two-semester module that is provided to students following
the Foundation Year in Engineering, Physics & Geophysics in the Faculty
of Engineering, Science and Mathematics in the University of
Southampton, England. The text is in eight sections, namely:

> *The SI System of Units*
> *Elasticity*
> *Vectors, Forces and Static Equilibrium*
> *Kinematics and Newton's Laws of Motion*
> *Work, Power and Energy*
> *Collisions*
> *Rotational Kinematics*
> *Electromagnetism*

Force, Motion and Energy has resulted from the work of several people
over many years, with editing and additional writing for this edition by
Martin Counihan. Later editions of *Force, Motion and Energy* will be
provided in the future, and will include additional material (such as
problem sheets and sample examination papers) and extended text.
Users are therefore advised to acquire the most recent edition available at
any time.

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