Contents*

Preface		(X1)
Acknowledgements		(xiii)
About the Author		(xv)
General List of Symbols and Notation		(xvii)
	Unit 1	
	Force, Work, Power and Energy	
Ι	Force	3
II	Uniform Circular Motion	37
III	Work, Energy and Power	43
IV	Types of Energy	61
V	Machines as Force Multipliers	83
VI	Principle of Conservation of Energy	111
	Unit 2	
	Light	
I	Refraction of Light	123
II	Total Internal Reflection	143
III	Lenses	155
IV	Electromagnetic Spectrum	175
	Unit 3	
	Sound	
I	Reflection of Sound Waves	189
II	Vibrations	203
III	Loudness, Pitch and Quality of Sound	213

*Largely in accordance with the ICSE syllabus for 10th class physics

Unit 4

Electricity and Magnetism

I Electric Current	235
II Electrical Power and Energy	279
III Household Circuits	289
IV Magnetic Effects of Current	315
Unit 5	
Heat	
I Calorimetry	357
II Latent Heat	377
Unit 6	
Modern Physics	
I Radioactivity	397
II Nuclear Fission and Fusion	425
Books of Reference	443
Index	445
Authors/Scientists Index	459
Notes	461