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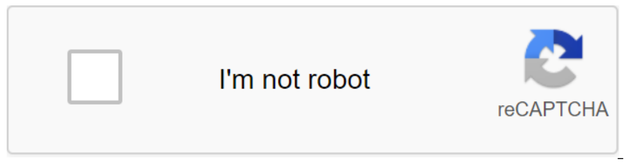

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We dedicate this book to our wives Elizabeth and Lisa, as well as to all our children and grandchildren for their loving understanding, when we spend time writing instead of being with them. 4. v Part 1 MECNICA 1 1 Physics and Medicine 2 2 Movement in Dimensin 19 3 Vectors 53 4 Movement in Two Dimensions 71 5 Traffic Laws 100 6 Circular Motion and Other Application of Newton's Laws 137 7 In 16 3 8 Energy saving 195 9 Number of linear movements and collisions 227 10 Rotation of a curly object around a fixed axis 269 11 Number of angular motion 311 12 Stretching balance and elasticity 337 13 Universal Gravitational 36 2 14 Fluid Mechanics 389 ContentsBreve Part 2 OSCILLATION AND MECNICAS WAVES 417 15 Oscillating Motion 418 16 Ripple Movement 449 17 Sound Waves 449 17 Sound Waves 418 1 6 Ripple474 18 Repositions and stationary waves 500 Part 3 TERMODINMICA 531 19 Temperature 532 20 First Thermodynamics Law 553 21 Gas Kinetic Theor 587 22 Trmica Machine , entropa and the second law of thermodynamics 612 Apndices A-1 Answers to problems with the odd number A-25 ndice I-1 CortesadeNASA .rJ, tteweJ.WnhoJ 5. 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