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Physics 316--Classical Mechanics

contents 1 vectors and kinematics 1 2 newton's laws 21 3 forces and equations of motion 33 4 momentum 54 5 energy 72 6 topics in dynamics 89 7 angular momentum and fixed axis rotation 105 8 rigid body motion 138 9 noninertial systems and fictitious forces 147 10 central force motion 156 11 the harmonic oscillator 171 12 the special theory of relativity 182 13 relativistic dynamics 196

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