



## The Mechanical Universe: Introduction to Mechanics and Heat

By Olenick, Richard P.; Apostol, Tom M.; Goodstein, David L.

Cambridge University Press, 1985. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. 1. Introduction to the mechanical universe; 2. The law of falling bodies; 3. Derivatives; 4. Inertia; 5. Vectors; 6. Newton's law; 7. Integration; 8. The apple and the moon; 9. Moving in circles; 10. Forces; 11. Gravity, electricity, and magnetism; 12. The milliken oil-drop experiment; 13. The law of conservation energy; 14. Energy and stability; 15. Temperature and the gas laws; 16. The engine of nature; 17. Entropy; 18. The quest for low temperatures; 19. The conservation of momentum; 20. Harmonic motion; 21. Resonance; 22. Coupled oscillators and waves; 23. Angular momentum; 24. Gyroscopes; 25. Kepler's laws and the conic sections; 26. Solving the Kepler problem; 27. Energy and eccentricity; 28. Navigating in space; 29. Loose ends and black holes; 30. The harmony of the spheres: an overview of the mechanical universe; Appendix A: the international system of units; Appendix B: conversion factors; Appendix C: formulas from algebra, geometry, and trigonometry; Appendix D: astronomical data; Appendix E: physical constants; Selected bibliography; Index.



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