

<<力学>>

图书基本信息

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内容概要

THIS book continues the series of English translations of the revised and augmented volumes in the Course of Theoretical Physics, which have been appearing in Russian since 1973. The English translations of volumes 2 (Classical Theory of Fields) and 3 (Quantum Mechanics) will shortly both have been published. Unlike those two, the present volume 1 has not required any considerable revision, as is to be expected in such a well- established branch of theoretical physics as mechanics is. Only the final sections, on adiabatic invariants, have been revised by L.P.Pitaevskil and myself....

书籍目录

Preface to the third English edition . L.D. Landau—a biography I. THE EQUATIONS OF MOTION 1. Generalised co-ordinates 2. The principle of least action 3. Galileo ' s relativity principle 4. The Lagrangian for a free particle 5. The Lagrangian for a system of particles II. CONSERVATION LAWS 6. Energy 7. Momentum 8. Centre of mass 9. Angular momentum 10. Mechanical similarity III. INTEGRATION OF THE EQUATIONS OF MOTION 11. Motion in one dimension 12. Determination of the potential energy from the period of oscillation 13. The reduced mass 14. Motion in a central field 15. Kepler ' s problem IV. COLLISIONS BETWEEN PARTICLES 16. Disintegration of particles 17. Elastic collisions 18. Scattering 19. Rutherford's formula 20. Small-angle scattering V. SMALL OSCILLATIONS VI. MOTION OF A RIGID BODY VII. THE CANONICAL EQUATIONS

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