<<Barron's AP 物理C>>

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内容概要

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书籍目录

巴朗五大要点提示 绪论 诊断测试 基础知识 一维运动学 二维运动学 牛顿定律 功、能量和功率 线性动量和质心 转动运动学、力、功和能量 转动惯量、平衡和转动/平衡的结合 简谐运动 万有引力 库仑定律和点电荷产生的电场 由连续电荷分布产生的电场和电势的计算 高斯定律

饱含电池的电阻电路分析

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章节摘录

插图: 弹性、非弹性和完全非弹性碰撞 1. In an elastic coil&ion, kinetic energy is conserved. Whatever kinetic energy isspent deforming the objects as they collide is completely recovered as they sep-arate (the energy is only temporarily stored as a compression of the objects). 2. In inelastic collisions, kinetic energy is not conserved (some is used toproduce heat, sound, or permanently deform the objects, all of which are non-conservative processes). 3. In a totally inelastic collision, kinetic energy is also not conserved, and the twoobjects remain stuck together after the collision. 碰撞问题的解法 First, you must decide whether the collision is elastic or inelastic. If the problemsays that the two particles end up stuck together, it is by definition totally inelastic. Otherwise, the problem generally tells you whether the collision is elastic or (equiv-alently) whether kinetic energy is conserved. When the collision is elastic, you can construct equations based on the fact thatboth linear momentum and kinetic energy must be conserved. If the collision isinelastic, you can use only the conservation of linear momentum. The following are extra problem-solving tips: 1. If the collision is totally inelastic, the objects share a common.final velocity(because they are stuck together). 2. Remember that momentum is a vector, so if the collision occurs in more thanone dimension, the conservation of the momentum vector will be equivalent to a set of two or three one-dimensional equations. 3. If the problem allo~vs you to calculate the change in kinetic energy during the collision, you can use a modified conservation of energy equation (such as KE = KEfr - KE0) to solve an inelastic collision. 4. When you think of a situation where linear momentum is conserved, you prob-ably think of a collision involving "contact forces. However, momentum is con-served even when forces act at a distance (such as gravitational forces orelectrostatic forces), as long as there are no net external forces. For example, the momentum of a system of planets, which attract each other gravitationally, is conserved.

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