

# 《Barron's AP 物理C》

## 图书基本信息

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## 内容概要

《出国留学书系,SAT、AP备考书系:Barron's AP 物理C(第3版)(英文)》有备考指南,考点透析,1套诊断测试助您认清强弱项,2套全真测试题帮您考前热身。主要包括:巴郎五大要点提示、牛顿定律、一维运动学、二维运动学、连续电荷分布产生的电场和电势的计算等。

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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

包含电池的电阻电路分析

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## 章节摘录

版权页：插图：弹性、非弹性和完全非弹性碰撞

1. In an elastic collision, kinetic energy is conserved. Whatever kinetic energy is spent deforming the objects as they collide is completely recovered as they separate (the energy is only temporarily stored as a compression of the objects).

2. In inelastic collisions, kinetic energy is not conserved (some is used to produce 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 two objects 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 problem says 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 (equivalently) whether kinetic energy is conserved. When the collision is elastic, you can construct equations based on the fact that both linear momentum and kinetic energy must be conserved. If the collision is inelastic, 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 than one dimension, the conservation of the momentum vector will be equivalent to a set of two or three one-dimensional equations.
3. If the problem allows you to calculate the change in kinetic energy during the collision, you can use a modified conservation of energy equation (such as  $KE = KE_f - KE_0$ ) to solve an inelastic collision.
4. When you think of a situation where linear momentum is conserved, you probably think of a collision involving "contact forces. However, momentum is conserved even when forces act at a distance (such as gravitational forces or electrostatic 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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## 编辑推荐

《出国留学书系,SAT、AP备考书系:Barron's AP 物理C(第3版)(英文)》由世界图书出版公司北京公司出版。

## 精彩短评

- 1、教AP怎么能不看这个，话说回来，学微积分不就是为用吗？
- 2、barron系列的书很喜欢
- 3、还不知怎样，还没有使用
- 4、最新版的，看起来不错 有些小标题物理名词还有中文标注 不错
- 5、学ap的不二选择！商品是正版特别好
- 6、Just as great as it should be! Incredibly smart express, knowing that two books purchased at different websites shall be delivered to the same place, reached my place for no more than two days! Incredible!
- 7、相比princeton还是有难度，有些讲解没有很细致
- 8、此书讲解较细，实用性很强。
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- 10、非常有用、包装的蛮漂亮、好！
- 11、书质量很好，物流和服务都很好，到现在没有发现任何问题，还会继续光顾。
- 12、孩子认为书写的浅显易懂
- 13、比原版的还好。。。纸质不错，几乎全英文
- 14、对于学习AP物理很有帮助，书是正品，质量很好！
- 15、书什么的，只要不窝不坏可以读就行了，况且这个价也比较值了，送的也很快。
- 16、书的质量非常好，不仅可以供学习和复习，作为一部优秀作品收藏也可以的？
- 17、给孩子买的，总体感觉不错
- 18、物理C名不虚传，其要求早已超越了国内一般的高考水平，大致介于自主招生难度和物理竞赛试题难度之间^^表示压力很大.....建议先学一点微积分再看这本书，里边（特别是电磁学）对于高数的要求还是很高的
- 19、里面有错误，第二章里就有多达两项错误，后面还没有看到。
- 20、刚开始学习，希望对考试有帮助。
- 21、希望学有所成
- 22、给孩子上国际中学用的，很好

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