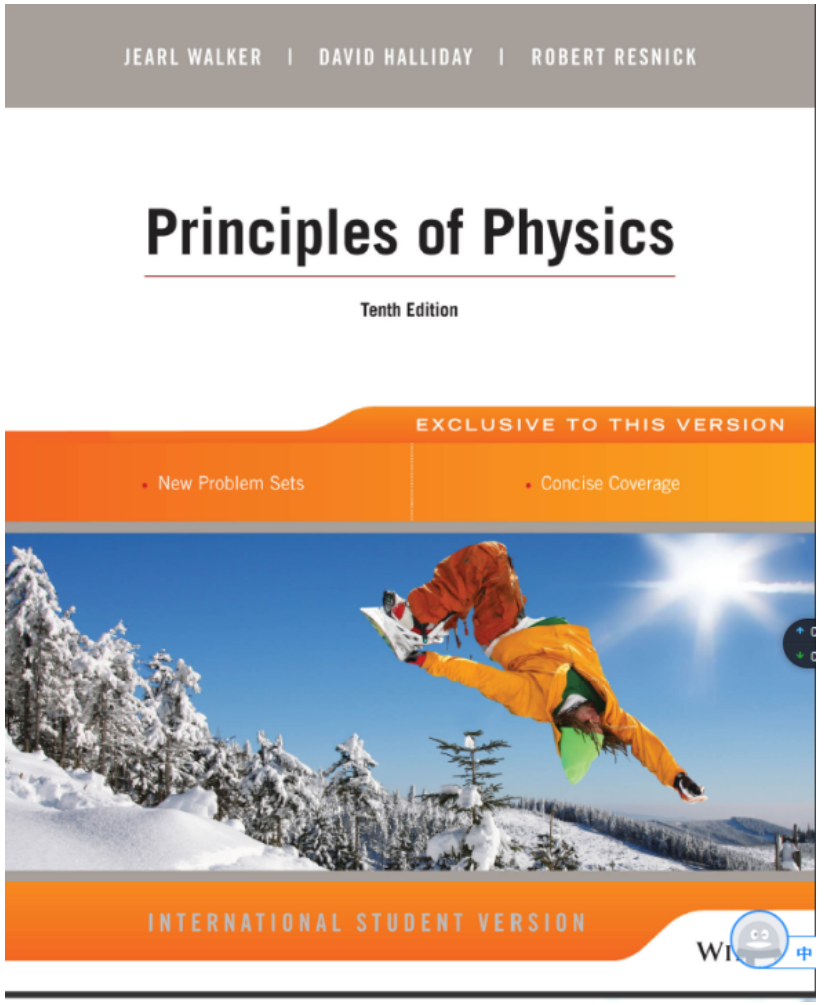
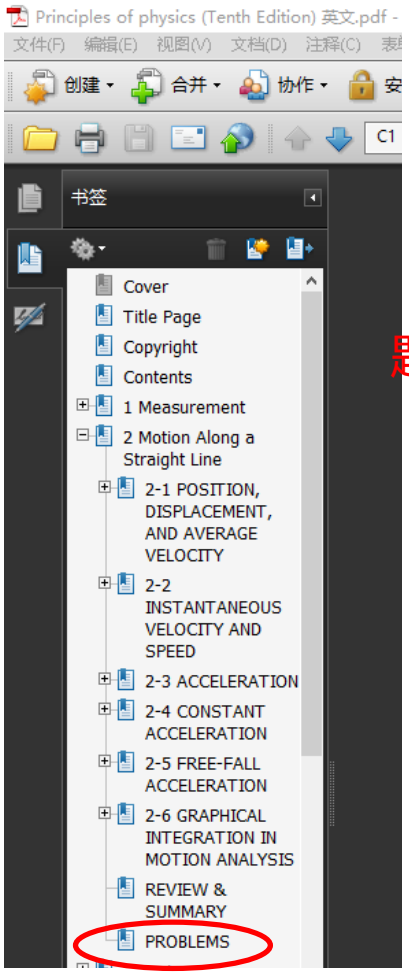
Attentions

1. 每章布置的作业题号对应于本班群文件里的电子版教材（**第十版，封面如右图）**，务必使用班级Q群发布的第十版电子版教材。(注意：目前流传了几个版本的教材，其他任何版本的题目（problem）与此官方版本可能不同，可能会导致做错题目而得0分！！。）
2. **作业必须手写**，作业开头写清班级，姓名，学号；
3. 作业可以写在纸质本子或者纸上，然后拍照，将照片转成**pdf格式文件**，也可以用在pad上手写，导出pdf文件
4. 作业答案写清楚章节题号（如Ch2-22）并按顺序作答，作业须写过程；
5. 通过Blackboard提交作业，将pdf文档上传至blackboard
6. 作业在截止期限前交到Blackboard，正常计分，过了截止期限48小时内提交，分数以50%计入，过了截止期限48小时后不计分。如有特殊情况请过假的同学 (走请假流程有假条) 需要在请假结束后的三天内将作业交上来，正常计分)。

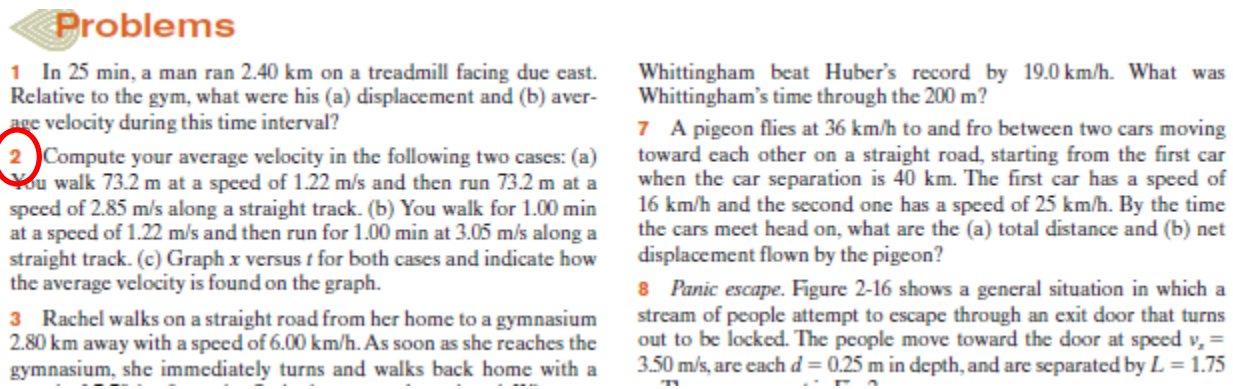


如何找到作业：

打开电子书，找到目录，点击Problems，进入Problems对应的页面，找到对应的题号即可：



题号



Problems

1 In 25 min, a man ran 2.40 km on a treadmill facing due east. Relative to the gym, what were his (a) displacement and (b) average velocity during this time interval?

2 Compute your average velocity in the following two cases: (a) You walk 73.2 m at a speed of 1.22 m/s and then run 73.2 m at a speed of 2.85 m/s along a straight track. (b) You walk for 1.00 min at a speed of 1.22 m/s and then run for 1.00 min at 3.05 m/s along a straight track. (c) Graph x versus t for both cases and indicate how the average velocity is found on the graph.

3 Rachel walks on a straight road from her home to a gymnasium 2.80 km away with a speed of 6.00 km/h. As soon as she reaches the gymnasium, she immediately turns and walks back home with a

Whittingham beat Huber's record by 19.0 km/h. What was Whittingham's time through the 200 m?

7 A pigeon flies at 36 km/h to and fro between two cars moving toward each other on a straight road, starting from the first car when the car separation is 40 km. The first car has a speed of 16 km/h and the second one has a speed of 25 km/h. By the time the cars meet head on, what are the (a) total distance and (b) net displacement flown by the pigeon?

8 *Panic escape.* Figure 2-16 shows a general situation in which a stream of people attempt to escape through an exit door that turns out to be locked. The people move toward the door at speed v_s = 3.50 m/s, are each d = 0.25 m in depth, and are separated by L = 1.75

Ch2-22应为此题：

22 The position of a particle moving along the x axis depends on the time according to the equation $x = ct^2 - bt^3$, where x is in meters and t in seconds. What are the units of (a) constant c and (b) constant b? Let their numerical values be 4.0 and 2.0, respectively. (c) At what time does the particle reach its maximum positive x position? From t = 0.0 s to t = 4.0 s, (d) what distance does the particle move and (e) what is its displacement? Find its velocity at times (f) 1.0 s, (g) 2.0 s, (h) 3.0 s, and (i) 4.0 s. Find its acceleration at times (j) 1.0 s, (k) 2.0 s, (l) 3.0 s, and (m) 4.0 s.

如何使用Blackboard交作业：

1, 登录Blackboard系统：https://cas.sustech.edu.cn/cas/login?service=https://bb.sustech.edu.cn/webapps/portal/execute/defaultTab

2, 点击“我的作业”，进入作业界面，点击图标中的Ch3，即可提交