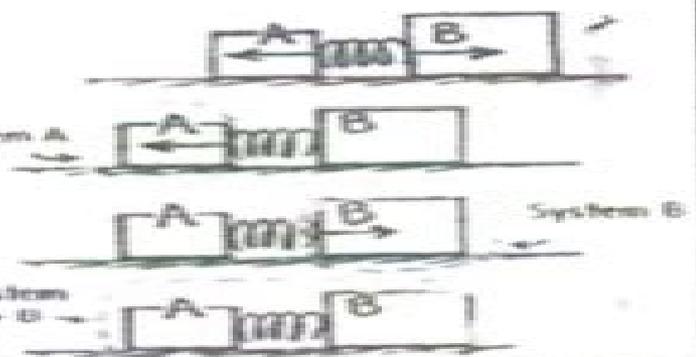


Chapter 6 Momentum  
Systems

7 When the compressed spring is released, blocks A and B will slide apart. There are 3 systems to consider, indicated by the closed dashed lines below—A, B, and A + B. Ignore the vertical forces of gravity and the support force of the table.



- a. Does an external force act on System A?  Y  N Will the momentum of System A change?  Y  N
- b. Does an external force act on System B?  Y  N Will the momentum of System B change?  Y  N
- c. Does an external force act on System A + B?  Y  N Will the momentum of System A + B change?  Y  N

8 Billiard ball A collides with billiard ball B at rest. Isolate each system with a closed dashed line. Draw only the external force vectors that act on each system.



Note that external forces on System A and System B are internal to System A+B, so they cancel!

- a. Upon collision, the momentum of System A  increases  decreases  remains unchanged
- b. Upon collision, the momentum of System B  increases  decreases  remains unchanged
- c. Upon collision, the momentum of System A + B  increases  decreases  remains unchanged



9 a. A girl jumps upward. In the left sketch, draw a closed dashed line to indicate the system of the girl. Is there an external force acting on her?

- Does her momentum change?  Y  N
- Is the girl's momentum conserved?  Y  N



b. In the right sketch, draw a closed dashed line to indicate the system (girl + Earth). Is there an external force acting on the system due to the interaction between the girl and Earth?

- Y  N

10 A block strikes a blob of jelly. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



11 A truck crashes into a wall. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



# Conceptual Physics Reading And Study Workbook Answers Chapter 5

**Jianjun Gao**



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