

## CHAPTER 7 | *IMPULSE AND MOMENTUM*

### *ANSWERS TO FOCUS ON CONCEPTS QUESTIONS*

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1. (b) Kinetic energy,  $\frac{1}{2}mv^2$ , is a scalar quantity and is the same for both cars. Momentum,  $mv$ , is a vector quantity that has a magnitude and a direction. The two cars have different directions, so they have different momenta.
2. (d) Momentum is a vector quantity that has a magnitude and a direction. The magnitudes ( $m_0v_0$ ) and directions (due north) are the same for both runners.
3. The magnitude of the total momentum is  $47\,700\text{ kg}\cdot\text{m/s}$ .
4. (d) According to the impulse-momentum theorem, the impulse is equal to the final momentum minus the initial momentum. Therefore, the impulses are the same in both cases, since the final momenta are the same and the initial momenta are the same. The impulse is also the product of the net average force and the time of impact. Since the impulses are equal and the time of impact is larger for the air mattress than for the ground, the air mattress exerts a smaller net average force on the high jumper.
5. The impulse is  $+324\text{ kg}\cdot\text{m/s}$ .
6. (c) According to the impulse-momentum theorem, the impulse is equal to the change in the particle's momentum. The magnitude of the momentum change is the same in regions A and C; therefore, in these regions the particle experiences impulses of the same magnitude. The momentum in region B is constant. Therefore, the change in momentum is zero, and so is the impulse.
7. (b) According to the impulse-momentum theorem, the net average force is equal to the change in the particle's momentum divided by the time interval. This ratio is greatest in region C. The ratio is equal to zero in region B, since the change in the particle's momentum is zero there.
8. Magnitude of net average force in Region A =  $1.0\text{ N}$ ,  
Magnitude of net average force in Region C =  $4.0\text{ N}$
9. (d) Since there are no external forces acting on the rocket, momentum is conserved before, during, and after the separation. This means that the momentum of the rocket before the separation ( $+150\,000\text{ kg}\cdot\text{m/s}$ ) is equal to the sum of the momenta of the two stages after the separation [ $+250\,000\text{ kg}\cdot\text{m/s} + (-100\,000\text{ kg}\cdot\text{m/s}) = +150\,000\text{ kg}\cdot\text{m/s}$ ].

# Concept Development 7 Momentum Answer Key

**SB Merriam**



## **Concept Development 7 Momentum Answer Key:**

*Strategy Savvy* Hesham Dinana, 2022-08-11 With the COVID 19 pandemic many business leaders question the need for strategy and the value of strategic planning and management in today's environment This book will demonstrate that our approach to strategy development and implementation needs to change to be able to help organizations change The proposed new approach in this book can provide insights and perspectives to keep strategy relevant by Putting Strategy in Action through developing a Making the Future Happen Today way of thinking and living Many strategy books focus on the perspective of large multinational corporations that have the capacity and capabilities to develop and implement a strategy using very structured methodologies and tools This book will add a new dimension by focusing on the use of Strategy as Practice SaP intuition and serendipity as important complements that can be used by large corporations as well as small and medium sized enterprises SMEs and entrepreneurs to develop and implement winning strategies This is an important dimension to support the strategic decision making process that is frequently undermined in traditional strategic planning and management focused books The author theorizes that developing into a Strategy Savvy professional is about embracing two of the most important concepts in strategy development Proactivity and Sustainability This book addresses the opportunities and threats presented by VUCA Volatility Uncertainty Complexity and Ambiguity and how we can capitalize on those opportunities to create unprecedented growth opportunities in Society 5.0 that is shaping new economies such as the Digital Economy the Experience Economy the Sharing Economy the GIG Economy the Purpose Economy and the Circular Economy The author also proposes a new approach to strategy development and implementation that mixes formal planning with practice and intuition that is helped by serendipity He presents a strategy that is driven by four propellers insights culture operations and digitization to ensure arrival at a better future **Heat Transfer** Lindon C. Thomas, 1999

**Scientific and Technical Aerospace Reports**, 1993 **El-Hi Textbooks & Serials in Print, 2005**, 2005

Technology for Large Space Systems, 1982 **Proceedings of the 6th Sriwijaya University Learning and**

**Education International Conference 2024 (SULE-IC 2024)** Meilinda Meilinda, Evelina Astra Patriot, Rudi

Hermawan, Meryansumayeka Meryansumayeka, Septy Sari Yukans, Romi Fajar Tanjung, Muhammad Yazir, Hesti Wahyuni Anggraini, Windi Dwi Andika, Dian Eka Amrina, Muhammad Akbar Budiman, Dea Alvionita Azka, 2025-06-14 This is an open access book Welcome to the Fifth Sriwijaya University Learning and Education International Conference 2024 SULE IC 2024 This year the theme of the conference is Reimagining and Redesigning Learning Toward Equitable Education The theme of the conference reflects the redesigning of learning for all students in the post pandemic period in order to overcome learning loss during the pandemic The theme also made possible the exchange of information knowledge experience and view for improving the quality of learning and research in the world especially in Indonesia **El-Hi Textbooks and Serials in Print**, 2003 *Management* Patrick J. Montana, Bruce H. Charnov, 1993 This book offers a comprehensive treatment of

contemporary management concepts and applications plus a historical and theoretical overview of their development The theories of MBO Management by Objective and TQM Total Quality Management are explained as are management s traditional functions staffing and personnel management control and performance appraisal and organizational design

**National Crash Severity Study - Quality Control. Task V: Analysis to Refine Spinout Aspects of CRASH. Final Report** Raymond R. McHenry,1981 *Principles of Helicopter Aerodynamics with CD Extra* Gordon J. Leishman,2006-04-24 Written by an internationally recognized teacher and researcher this book provides a thorough modern treatment of the aerodynamic principles of helicopters and other rotating wing vertical lift aircraft such as tilt rotors and autogiros The text begins with a unique technical history of helicopter flight and then covers basic methods of rotor aerodynamic analysis and related issues associated with the performance of the helicopter and its aerodynamic design It goes on to cover more advanced topics in helicopter aerodynamics including airfoil flows unsteady aerodynamics dynamic stall and rotor wakes and rotor airframe aerodynamic interactions with final chapters on autogiros and advanced methods of helicopter aerodynamic analysis Extensively illustrated throughout each chapter includes a set of homework problems Advanced undergraduate and graduate students practising engineers and researchers will welcome this thoroughly revised and updated text on rotating wing aerodynamics Working with Farmers W. W. Stür,2000 The topics of these papers include the participatory approaches to developing agricultural technologies with smallholder farmers scaling up adoption of agricultural technologies summarizing forage technologies and options for upland farmers and livestock production on farm **Proceedings** American Society for Engineering Education. Conference,1995 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2005 Theses on any subject submitted by the academic libraries in the UK and Ireland U.S. Government Research & Development Reports ,1965-12 U.S. Government Research and Development Reports ,1965-10 **Government Reports Announcements & Index** ,1993 Physics Briefs ,1990 ARS Journal American Rocket Society,1961 **Innovations in Transportation Planning and Development** National Research Council (U.S.). Transportation Research Board,1985 *China* World Bank,1993 The Republic of Korea s industrial policy has directed that nation s economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy s structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government

would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts

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