Physical Science - Chapter 14 Review Sheet

- 1. When does a force applied to an object not do any work? When there is no displacement
- 2. What is the unit of work? Joule
- If you exert a force of 10.0 N to lift a box a distance of 0.75 m, how much work do you do? 7.5 J
- If you perform 30 joules of work litting a 20-N box from the floor to a shelf, how high is the shelf? 1.5 m
- 5. The SI unit of power is the ______. Watt
- If you exert a force of 500 N to walk 4 m up a flight of stairs in 4 s, how much power do you use? 500 W
- 7. A machine is a device that can multiply . Force
- When a machine does work, it can do all of the following EXCEPT
 - a. change the direction of a force.
 - b. increase a force and change the distance a force moves.
 - increase the distance a force moves and change the direction of a force.
 - d. increase a force and increase the distance a force moves.
- If you know the input distance and output distance of a machine, which of the following can you calculate?
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 330 N, what is the actual mechanical advantage of the crowbar?
- A motor with an efficiency rating of 80 percent must supply 300 J of useful work. What amount of work must be supplied to the motor?

a jar lid
 d. a pencil

- 13. Which of the following is an example of a wheel and axle?
 - a doorknob
 an automobile steering wheel

- The force that is exerted on a machine is called the force. Output force.
- 17. The fulcrum is always between the effort force and the resistance force in a(an) -class lever. first
- Compare the size and direction of the input and output forces shown in the figure to the right. Same direction, output force is greater
- The ideal mechanical advantage of a third-class lever is always than 1. less
- If you grease a ramp to make a box slide more easily, what happens to the ramp's mechanical advantage? increases
- 22. If a simple machine could be frictionless, how would its IMA and AMA compare? equal
- 23. How does friction affect the calculation of the IMA of a simple machine? it doesn't
- The input force of a pulley system must move 6.0 m to lift a 3000-N engine a distance of 0.50 m. What is the IMA of the system?
- 25. A force of 12 N is applied to the handle of a screwdriver being used to pry off the lid of a paint can. As the force moves through a distance 0.3 m, the screwdriver does 32 J of work on the lid. What is the efficiency of the screwdriver? BAD QUESTION
- 26. What is the IMA of the ramp in the figure at the right? 3





Katrin Zwirglmaier

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complexity produced instead a grandiosity that has now mercifully run its course and died Most of us have become wary of proposals for an integrated systems approach to complex matters yet we must come to grips with complexity some how Now is a good time to reexamine complex systems to determine whether or not various scientific specialties can discover common principles or properties in them If they do then a fresh multidisciplinary attack on the difficulties would be a valid scientific task Believing that complexity is a proper scientific issue and that self organizing systems are the foremost example R Tomovic Z Damjanovic and I arranged a conference August 26 September 1 1979 in Dubrovnik Yugoslavia to address self organizing systems We invited 30 participants from seven countries Included were biologists geologists physicists chemists mathematicians bio physicists and control engineers Participants were asked not to bring manu scripts but rather to present positions on an assigned topic Any writing would be done after the conference when the writers could benefit from their experi ences there System Engineering Analysis, Design, and Development Charles S. Wasson, 2015-11-16 Praise for the first edition This excellent text will be useful to every system engineer SE regardless of the domain It covers ALL relevant SE material and does so in a very clear methodical fashion The breadth and depth of the author's presentation of SE principles and practices is outstanding Philip Allen This textbook presents a comprehensive step by step guide to System Engineering analysis design and development via an integrated set of concepts principles practices and methodologies The methods presented in this text apply to any type of human system small medium and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical transportation financial educational governmental aerospace and defense utilities political and charity among others Provides a common focal point for bridging the gap between and unifying System Users System Acquirers multi discipline System Engineering and Project Functional and Executive Management education knowledge and decision making for developing systems products or services Each chapter provides definitions of key terms guiding principles examples author s notes real world examples and exercises which highlight and reinforce key SE specification development system architecture development User Centric System Design UCSD interface definition system integration and Verification Life Cycle requirements Phases Modes SE Process Requirements Derivation System Architecture Development User Centric System Design UCSD Engineering Standards Coordinate Systems and Conventions et al Thoroughly illustrated with end of chapter exercises and numerous case studies and examples Systems Engineering Analysis Design and Development Second Edition is a primary textbook for multi discipline engineering system analysis and project management undergraduate graduate level students and a valuable reference for professionals Kelsey's Midwifery & Women's Health Nurse Practitioner Certification Review Guide Jamille Nagtalon-Ramos, Melicia Escobar, 2024-12-26 Kelsey's Midwifery Women's Health Nurse Practitioner Certification Review Guide Sixth Edition is a comprehensive review designed to help midwives and women s health nurse practitioners prepare for their certification exams Based on the American Midwifery Certification Board AMCB

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Space Ethics Brian Patrick Green, 2021-10-19 Throughout history humans have explored new places making both good and bad moral decisions along the way As humanity proceeds to explore space it is important that we learn from the successes and not repeat the mistakes of the past This book provides the first comprehensive introduction to ethics as it applies to space exploration and use It examines real world case studies that exemplify the ethical challenges we face in exploring beyond Earth space debris militarization in space hazardous asteroids planetary protection the search for extraterrestrial life commercial and private sector activities in space space settlements very long duration missions and planetary scale interventions Major themes include human health environmental concerns safety and risk governance and decision making and opportunities and challenges of multidisciplinary and international contexts Ideal for classroom use and beyond the book provides ways of thinking that will help students academics and policymakers examine the full range of ethical decisions on questions related to space exploration

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