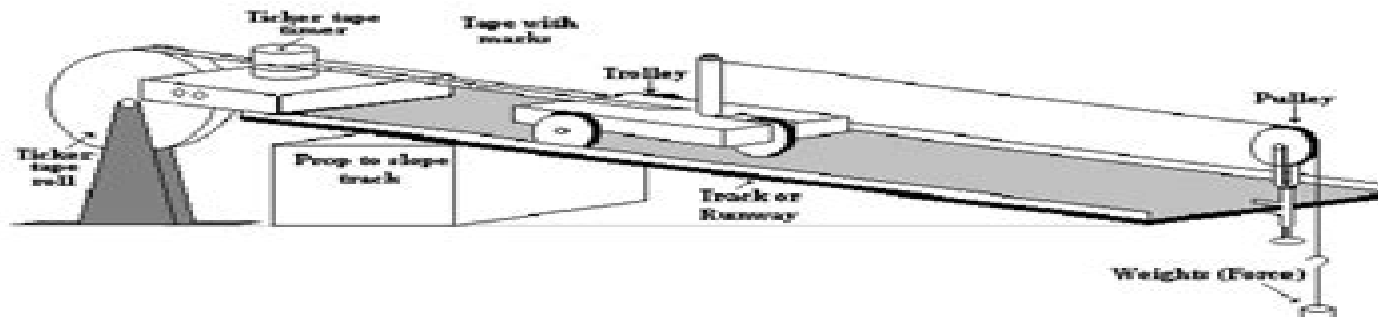


PHYSICAL SCIENCES GRADE 11
TERM 1: PHYSICS EXPERIMENT
KNOWLEDGE AREA: MECHANICS
VERIFICATION NEWTON'S SECOND LAW OF MOTION

	MARKING GUIDELINES
DATE	<i>February / March 2020</i>
SCHOOL	
DISTRICT	<i>Tshwane South D4</i>

NB: All diagrams, data and graphs are just examples. Mark according to the experiments as conducted by the learners at your school.

PART 1



Mark with rubric

[10]

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Jon Gertner



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Past, Present and Future Of Multispacecraft Measurements For Space Physics Joseph E. Borovsky, David Gary Sibeck, David Knudsen, Xochitl Blanco-Cano, Katariina Nykyri, 2025-03-19 Multi spacecraft scientific missions for space physics have been flown since the 1960s with early missions such as IMP VELA Helios and ISEE Much of the success in understanding the Earth's magnetosphere and ionosphere and the physics and evolution of the solar wind has come from multi spacecraft measurements Multi spacecraft measurements have been essential for studying the transport of plasma and energy the motion of boundaries the evolution of structure the growth of instabilities particle injections and the rudiments of cross scale coupling and they have allowed accurate determinations of the orientation of plasma boundaries and current sheets the geometry of magnetic field structures the remote connections along magnetic field lines and the direction of plasma wave vectors Multispacecraft missions continue into the present including planned constellation type missions plus the use of the Heliophysics Great Observatory a collection of data from diverse spacecraft throughout the heliosphere Modern four spacecraft volumetric measurements are enabling the measurement of the gradients divergences and curls of the vector fields Transactions on Computational Science XXIX Marina L. Gavrilova, C.J. Kenneth Tan, 2017-03-11 This the 29th issue of the Transactions on Computational Science journal is comprised of seven full papers focusing on the area of secure communication Topics covered include weak radio signals efficient circuits multiple antenna sensing techniques modes of inter computer communication and fault types geometric meshes and big data processing in distributed environments Ploughshares and Swords Jayita Sarkar, 2022-07-15 India's nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats In Ploughshares and Swords Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years The book foregrounds the program's civilian and military features by probing its close relationship with the space program Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home The nuclear program became a consensus enforcing device in the name of the nation Ploughshares and Swords is a provocative new history with global implications It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization Thanks to generous funding from the Swiss National Science Foundation the ebook editions of this book are available as Open Access volumes from Cornell Open cornellpress.cornell.edu/cornell-open and other repositories

Scientific and Technical Aerospace Reports ,1967

Investigating Light and Shadow with Young Children

(Ages 3-8) Beth Dykstra Van Meeteren, 2022-06-17 Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground. An understanding of light and shadow is crucial to many STEM fields including astronomy, biology, engineering, architecture, and more. This book shows teachers how to engage children ages 3-8 with light and shadow in a playful way, building an early foundation for the later, more complex study of this phenomena and ultimately for children's interest in professions within the STEM fields. The text offers guidance for arranging the physical environment of classrooms, integrating literacy learning and investigations, and building partnerships with administrators. Each volume in the STEM for Our Youngest Learners Series includes examples of educators and children engaging in inquiry learning, guidance for selecting materials and arranging the learning environment, modifications and accommodations for diverse learners, support for establishing adult learning communities, and more.

The Idea Factory Jon Gertner, 2013-02-26 The definitive history of America's greatest incubator of innovation and the birthplace of some of the 20th century's most influential technologies. Filled with colorful characters and inspiring lessons, The Idea Factory explores one of the most critical issues of our time: What causes innovation? Walter Isaacson, The New York Times Book Review. Compelling. Gertner's book offers fascinating evidence for those seeking to understand how a society should best invest its research resources. The Wall Street Journal. From its beginnings in the 1920s until its demise in the 1980s, Bell Labs, officially the research and development wing of AT&T, was the biggest and arguably the best laboratory for new ideas in the world. From the transistor to the laser, from digital communications to cellular telephony, it's hard to find an aspect of modern life that hasn't been touched by Bell Labs. In The Idea Factory, Jon Gertner traces the origins of some of the twentieth century's most important inventions and delivers a riveting and heretofore untold chapter of American history. At its heart, this is a story about the life and work of a small group of brilliant and eccentric men: Mervin Kelly, Bill Shockley, Claude Shannon, John Pierce, and Bill Baker, who spent their careers at Bell Labs. Today, when the drive to invent has become a mantra, Bell Labs offers us a way to enrich our understanding of the challenges and solutions to technological innovation. Here, after all, was where the foundational ideas on the management of innovation were born.

Readings in Qualitative Reasoning About Physical Systems Daniel S. Weld, Johan De Kleer, 2013-09-17 Readings in Qualitative Reasoning about Physical Systems describes the automated reasoning about the physical world using qualitative representations. This text is divided into nine chapters, each focusing on some aspect of qualitative physics. The first chapter deals with qualitative physics, which is concerned with representing and reasoning about the physical world. The goal of qualitative physics is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists. The succeeding chapter discusses the qualitative calculus and its role in constructing an environment that includes behavior over both mythical time and elapsed time. These topics are followed by reviews of the mathematical aspects of qualitative reasoning, history-based simulation, and temporal reasoning, as well as the intelligence in

scientific computing The final chapters are devoted to automated modeling for qualitative reasoning and causal explanations of behavior These chapters also examine the qualitative kinematics of reasoning about shape and space This book will prove useful to psychologists and psychiatrists

Surface Waves and Fluxes G.L. Geernaert, W.J. Plant, 2013-11-11 During the Conference on Air Sea Interaction in January 1986 it was suggested to me by David Larner of Reidel Press that it may be timely for an updated compendium of air sea interaction theory to be organized developed and published Many new results were emerging at the time i e results from the MARSEN MAS EX MILDEX and TOWARD field projects among others were in the process of being reported and or published Further a series of new experiments such as FASINEX and HEXOS were soon to be conducted in which new strides in our knowledge of air sea fluxes would be made During the year following the discussions with David Larner it became apparent that many of the advances in air sea interaction theory during the 1970s and 1980s were associated with sponsor investments in satellite oceanography and in particular remote sensing research Since ocean surface remote sensing e g scatterometry and SAR requires intimate knowledge of ocean surface dynamics advances in remote sensing capabilities required coordinated research in air sea fluxes wave state scattering theory sensor design and data exploitation using environmental models Based on this interplay of disciplines it was decided that this book be devoted to air sea interaction and remote sensing as multi disciplinary activities

Oceanographical Engineering Robert L. Wiegel, 2013-09-03 As is the case with many modern fields of study oceanographical engineering cuts across the boundaries of several disciplines Like other scientific endeavors it aims to understand the nature of the ocean and to make use of this understanding for the benefit of humanity through better ports safer and more economical operations at sea and greater use of the oceans natural resources food raw materials and recreation This graduate level text requires a knowledge of fluid mechanics a background in the motions of sediments in fluids is advisable as is a concurrent course in structural dynamics Topics include the theory of periodic waves tsunamis storm surges and harbor oscillations the effect of structures on waves waves in shoaling water tides and sea level changes currents shores and shore processes some characteristics of the oceans waters moorings and other related subjects Certain portions of the book pertaining to the distribution of temperatures and salinities in the ocean are largely descriptive other portions such as the sections on waves are mathematical Numerous drawings and photographs supplement the text

Earth Observation Systems for Resource Management and Environmental Control D. Clough, 2013-03-09 The NATO Science Committee and its subsidiary Programme Panels provide support for Advanced Research Institutes ARI in various fields The idea is to bring together scientists of a chosen field with the hope that they will achieve a consensus on research directions for the future and make recommendations for the benefit of a wider scientific community Attendance is therefore limited to those whose experience and expertise make the conclusions significant and acceptable to the wider community Participants are selected on the basis of substantial track records in research or in the synthesis of research results to serve mankind The proposal for a one week

ARION Earth Observation and Information Systems was initiated by the NATO Special Programme Panel on Systems Science SPPOSS. In approving the ARI, the senior NATO Science Committee identified the subject as one of universal importance requiring a broad perspective on the development of operational systems based on successful experimental systems. The general purpose of this ARI was to address the critical problems of integrating the relatively new science and technology of remote sensing into operational earth observation and management information systems. The main problems of concern were those related to systems design, organization, development of infrastructure and use of information in decision processes. The main emphasis was on problems of transferring technologies and methods from experimental to operational systems.

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