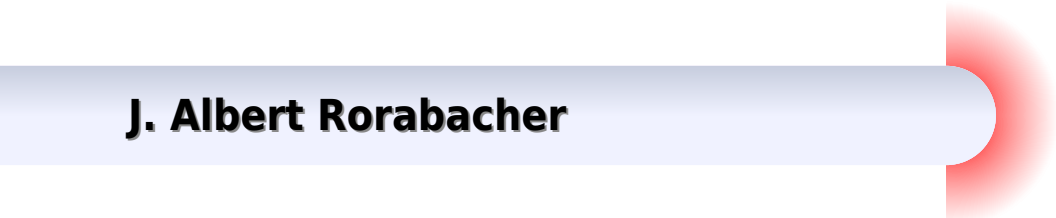


Question	Answer	Marks
1(a)(i)	(gravitational) force is (directly) proportional to product of masses	B1
	force (between point masses) is inversely proportional to the square of their separation	B1
1(a)(ii)	$g = F/m$	C1
	$F = GMm/r^2$ and so $g = [GMm/r^2]/m = GM/r^2$	A1
1(b)(i)	$g = (6.67 \times 10^{-11} \times 7.35 \times 10^{22})/(1.74 \times 10^6)^2 = 1.62 \text{ N kg}^{-1}$	A1
1(b)(ii)	fields (due to Earth and the Moon) have equal magnitudes	B1
	fields (due to Earth and the Moon) are in opposite directions	B1
1(b)(iii)	distance of X from Earth = $(3.84 \times 10^8 - x)$	C1
	$(G \times) 7.35 \times 10^{22}/x^2 = (G \times) 5.98 \times 10^{24}/(3.84 \times 10^8 - x)^2$	C1
	$x = 3.8 \times 10^7 \text{ m}$	A1

Question	Answer	Marks
2(a)(i)	(vertically) downwards	B1
2(a)(ii)	magnetic force (on sphere) is perpendicular to its velocity	B1
	magnetic force perpendicular to velocity is the centripetal force or magnetic force perpendicular to velocity causes centripetal acceleration or acceleration perpendicular to velocity is centripetal (acceleration) or magnetic force does not change the speed of the sphere or magnetic force has constant magnitude	B1
2(b)	$mg = Bq$	C1
	$E = (1.6 \times 10^{-19} \times 9.81)/(0.27 \times 10^{-9})$ $= 5.8 \text{ N C}^{-1}$	A1
2(c)	centripetal force = magnetic force or $Bqv = mv^2/r$	B1
	$B = mv/rq$	C1
	$= (1.6 \times 10^{-19} \times 0.78)/(0.27 \times 10^{-9} \times 3.4) = 0.14 \text{ T}$	A1

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Cambridge International AS and A Level Physics Revision Guide Robert Hutchings, 2015-12-10 Cambridge International AS and A Level Physics Revision Guide matches the requirements of the Cambridge AS and A Level Physics syllabus This Revision Guide offers support for students as they prepare for their AS and A Level Physics 9702 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance specifically designed to help students apply their knowledge in exams such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes Written in a clear and straightforward tone this Revision Guide is perfect for international learners

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Advances in the Study of Fractured Reservoirs G.H. Spence, J. Redfern, R. Aguilera, T.G. Bevan, J.W. Cosgrove, G.D. Couples, J.-M. Daniel, 2014-08-27 Naturally fractured reservoirs constitute a substantial percentage of remaining hydrocarbon resources they create exploration targets in otherwise impermeable rocks including under explored crystalline basement and they can be used as geological stores for anthropogenic carbon dioxide Their complex behaviour during production has traditionally proved difficult to predict causing a large degree of uncertainty in reservoir development The applied study of naturally fractured reservoirs seeks to constrain this uncertainty by developing new understanding and is necessarily a broad integrated interdisciplinary topic This book addresses some of the challenges and advances in knowledge approaches concepts and methods used to characterize the interplay of rock matrix and fracture networks relevant to fluid flow and hydrocarbon recovery Topics include describing characterizing and identifying controls on fracture networks from outcrops cores geophysical data digital and numerical

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Universities in the National Innovation Systems V. V. Krishna, 2017-07-31 This volume looks at the role of universities in the National Innovation Systems in economies of the Asia Pacific It examines the tremendous growth of human and knowledge capital made possible by teaching and research excellence in major universities along with how universities are being re positioned as frontiers of innovation in the National Systems of Innovation The chapters assess the impact of globalisation and innovation together with the emergence of new knowledge sites extended to the Asia Pacific region With contributions by experts and academics and key case studies this book will be useful to scholars and researchers in higher education development studies public policy economics business and resource management Asian studies as well as policymakers

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Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation, growth and job creation because of a neglected problem: the resistance to innovation from legacy sectors like energy, manufacturing and health care, which constitute most of our economy. The book offers systematic strategies to overcome the structural obstacles to innovation in critically important legacy sectors.

Advanced UAV Aerodynamics, Flight Stability and Control Pascual Marqués, Andrea Da Ronch, 2017-07-11 Comprehensively covers emerging aerospace technologies. Advanced UAV aerodynamics, flight stability and control. Novel concepts, theory and applications. Presents emerging aerospace technologies in the rapidly growing field of unmanned aircraft engineering. Leading scientists, researchers and inventors describe the findings and innovations accomplished in current research programs and industry applications throughout the world. Topics included cover a wide range of new aerodynamics concepts and their applications for real world fixed wing airplanes, rotary wing helicopter and quad rotor aircraft. The book begins with two introductory chapters that address fundamental principles of aerodynamics and flight stability and form a knowledge base for the student of Aerospace Engineering. The book then covers aerodynamics of fixed wing, rotary wing and hybrid unmanned aircraft before introducing aspects of aircraft flight stability and control. Key features: Sound technical level and inclusion of high quality experimental and numerical data. Direct application of the aerodynamic technologies and flight stability and control principles described in the book in the development of real world novel unmanned aircraft concepts. Written by world class academics, engineers, researchers and inventors from prestigious institutions and industry. The book provides up to date information in the field of Aerospace Engineering for university students and lecturers, aerodynamics researchers, aerospace engineers, aircraft designers and manufacturers.

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Protostars and Planets VI Henrik Beuther,Ralf S. Klessen,Cornelis Petrus Dullemond,Thomas K. Henning,2014-12-18

Proceedings of a conference held in Heidelberg Germany July 15 20 2013 **Einstein Relatively Simple: Our Universe Revealed In Everyday Language** Ira Mark Egdall, 2014-01-06 Outstanding Academic Title for 2014 by CHOICE Einstein Relatively Simple brings together for the first time an exceptionally clear explanation of both special and general relativity It is for people who always wanted to understand Einstein's ideas but never thought they could Told with humor enthusiasm and rare clarity this entertaining book reveals how a former high school drop out revolutionized our understanding of space and time From $E=mc^2$ and everyday time travel to black holes and the big bang Einstein Relatively Simple takes us all regardless of our scientific backgrounds on a mind boggling journey through the depths of Einstein's universe Along the way we track Einstein through the perils and triumphs of his life follow his thinking his logic and his insights and chronicle the audacity imagination and sheer genius of the man recognized as the greatest scientist of the modern era In Part I on special relativity we learn how time slows and space shrinks with motion and how mass and energy are equivalent Part II on general relativity reveals a cosmos where black holes trap light and stop time where wormholes form gravitational time machines where space itself is continually expanding and where some 13.7 billion years ago our universe was born in the ultimate cosmic event the Big Bang **Enhanced Oil Recovery Processes** Ariffin Samsuri, 2019-12-18 Concerned with production decline shortages of new oil reserves and increasing world energy demand the oil sector continues to search for economic and efficient techniques to enhance their oil recovery from the existing oil field using several enhanced oil recovery techniques EOR methods Despite its high efficiency widely acclaimed potentials and limitations the Low Salinity Water Flooding LSWF hybrid and nanotechnology applications have gained vast interest with promising future to increase ultimate oil recovery tackle operational challenges reduce environmental damage and allow the highest feasible recoveries with lower production costs This synergistic combination has opened new routes for novel materials with fascinating properties This book aims to provide an overview of EOR technology such as LSWF hybrid and nanotechnology applications in EOR processes

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