



A level Applied Paper 3B Mechanics Practice Paper M13 MARK SCHEME

Question 1

Question Number	Scheme	Mark
(a)	$240 = \frac{1}{2}(u + 34)10$ $u = 14$	M1 A1 A1
(b)	$34 = 14 + 10a \Rightarrow a = 2$ $120 = 14t + \frac{1}{2} \times 2 \times t^2$ $t^2 + 14t - 120 = 0$ Solving, $t = -20$ or 6 $t = 6$	(3) M1 A1 M1 A1 DM1 A1
	OR $34 = 14 + 10a \Rightarrow a = 2$ $v^2 = 14^2 + 2 \times 2 \times 120 \Rightarrow v = 26$ AND $26 = 14 + 2t$ $t = 6$	M1 A1 M1 A1 DM1 A1
		(6)
		[9]
Notes for Question		
Q (a)	First M1 for a complete method to produce an equation in u only. First A1 for a correct equation. ($u^2 - 48u + 476 = 0$ oe is possible). Second A1 for $u = 14$.	
Q (b)	EITHER First M1 for an equation in a only. (M0 if $v = 34$ when $s = 120$ is used) First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a 3-term quadratic equation in t only, allow sign errors (must have found a value of a . (M0 if $v = 34$ when $s = 120$ is used) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$ OR First M1 for an equation in a only. First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a complete method to obtain an equation in t only, allow sign errors. (must have found a value of a) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$	

May 2013 Mechanics Mark Scheme

David J. Griffiths, Darrell F. Schroeter



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that scientists novelists filmmakers and entrepreneurs became obsessed with the question of whether there s life on Mars Since then Mars has fully invaded pop culture inspiring its own day of the week Tuesday an iconic Looney Tunes character and many novels and movies from Ray Bradbury s Martian Chronicles to The Martian It s this cultural familiarity with the fourth planet that continues to inspire advancements in Mars exploration from NASA s launch of the Mars rover

Perseverance to Elon Musk s quest to launch a manned mission to Mars through SpaceX by 2024 Perhaps one day we ll be able to answer the questions our ancestors asked when they looked up at the night sky millennia ago **English Mechanic and Mirror of Science** ,1904 **Being Creative in Primary English** Adrian Copping,2016-09-19 Why should we foster creativity in primary English A practical and accessible text that demonstrates how creative thinking and learning can support primary English teaching With chapters mapped to the Teachers Standards and links to the new National Curriculum each chapter provides a case study exploring high quality primary English practice including planning rationale and ideas for the classroom These are fully grounded in a wide range of theoretical frameworks viewpoints and values Reflective activities in each chapter offering practical exercises and additional reading suggestions encourage trainee teachers to further their understanding of how theory translates to classroom practice This inspiring book helps support learning teaching and assessment without losing innovation excitement and motivation for both teachers and children Advanced HPC-based Computational Modeling in Biomechanics and Systems Biology Mariano Vázquez,Peter V. Coveney,Hernan Edgardo Grecco,Alfons Hoekstra,Bastien Chopard,2019-04-04 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact Cellular Mechanics and Biophysics Claudia Tanja Mierke,2020-10-30 This book focuses on the mechanical properties of cells discussing the basic concepts and processes in the fields of immunology biology and biochemistry It introduces and explains state of the art biophysical methods and examines the role of mechanical properties in the cell protein interaction with the connective tissue microenvironment The book presents a unique perspective on cellular mechanics and biophysics by combining the mechanical biological physical biochemical medical and immunological views highlighting the importance of the mechanical properties of cells and biophysical measurement methods The book guides readers through the complex and growing field of cellular mechanics and biophysics connecting and discussing research findings from different fields such as biology cell biology immunology physics and medicine Featuring suggestions for further reading throughout and addressing a wide selection of biophysical topics this book is an indispensable guide for graduate and advanced undergraduate students in the fields of cellular mechanics and

biophysics **The Princeton Companion to Applied Mathematics** Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-15 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index **Comprehensive Geographic Information Systems**, 2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources **The Christian Advocate**, 1902 **A Dictionary for the Modern Pianist** Stephen Siek, 2016-11-10 A Dictionary for the Modern Pianist combines nearly four hundred entries covering classical and popular pianists noted teachers terminology germane to the piano s construction and major manufacturers both familiar firms and outstanding independent builders who have risen to the forefront in recent years Speaking to the needs of the modern performer it also includes entries on jazz and pop artists

digital pianos and period instruments As a resource for professionals and students A Dictionary for the Modern Pianist is also accessible to more general readers as all of its topics are presented in clear readable expositions Drawing on the most recent research of numerous specialists author Stephen Siek emphasizes the piano s uniquely rich heritage giving pianists a renewed appreciation for the famous artists and teachers who have shaped their art Transcending simple alphabetical definitions the dictionary s careful attention both to legacy and detail make it an invaluable addition to any pianist s library Titles in the Dictionaries for the Modern Musician series offer novice and advanced musicians key information on the field of study and performance of a major instrument or instrument class Unlike other encyclopedic works contributions to this series focus primarily on the knowledge required by the contemporary musical student or performer From quick definitions of confusing terms to in depth overviews of history and tradition the dictionaries are ideal references for students professionals and music lovers of all kinds

Complementarity: Applications, Algorithms and Extensions Michael C. Ferris, Olvi L. Mangasarian, Jong-Shi Pang, 2013-03-09 This volume presents state of the art complementarity applications algorithms extensions and theory in the form of eighteen papers These at the International Conference on Com invited papers were presented plementarity 99 ICCP99 held in Madison Wisconsin during June 9 12 1999 with support from the National Science Foundation under Grant DMS 9970102 Complementarity is becoming more widely used in a variety of appli cation areas In this volume there are papers studying the impact of complementarity in such diverse fields as deregulation of electricity mar kets engineering mechanics optimal control and asset pricing Further more application of complementarity and optimization ideas to related problems in the burgeoning fields of machine learning and data mining are also covered in a series of three articles In order to effectively process the complementarity problems that arise in such applications various algorithmic theoretical and computational extensions are covered in this volume Nonsmooth analysis has an im portant role to play in this area as can be seen from articles using these tools to develop Newton and path following methods for constrained nonlinear systems and complementarity problems Convergence issues are covered in the context of active set methods global algorithms for pseudomonotone variational inequalities successive convex relaxation and proximal point algorithms Theoretical contributions to the connectedness of solution sets and constraint qualifications in the growing area of mathematical programs with equilibrium constraints are also presented A relaxation approach is given for solving such problems Finally computational issues related to preprocessing mixed complementarity problems are addressed

Frontiers of Laser Physics and Quantum Optics Zhizhan Xu, Shengwu Xie, Shi-Yao Zhu, Marlan O. Scully, 2013-11-11 Since the advent of the laser about 40 years ago the fields of laser physics and quantum optics have evolved into a major disciplines The early studies included optical coherence theory and semiclassical and quantum mechanical theories of the laser More recently many new and interesting effects have been predicted These include the role of coherent atomic effects in lasing without inversion and electromagnetically induced transparency atom optics laser cooling and trapping

teleportation the single atom micromaser and its role in quantum measurement theory to name a few The International Conference on Laser Physics and Quantum Optics was held in Shanghai China from August 25 to August 28 1999 to discuss these and many other exciting developments in laser physics and quantum optics The international character of the conference was manifested by the fact that scientists from over 13 countries participated and lectured at the conference There were four keynote lectures delivered by Nobel laureate Willis Lamb Jr Profs H Walther A E Siegman and M O Scully In addition there were 34 invited lectures 27 contributed oral presentations and 59 poster papers We are grateful to all the participants of the conference and the contributors of this volume

Weather Disasters in the South China Sea and Surrounding Regions: Observations, Theories, Data Assimilation, and Numerical Forecasting Jianjun Xu, Julian Wang, Sheng Chen, Chunlei Liu, 2023-08-28 The South China Sea SCS is the linkage between the western Pacific Ocean and the Indian Ocean Its weather climate variations are regarded as an important factor influencing social and economic development The SCS and its surrounding regions suffer from various weather disasters e g typhoons extreme rainfall sea fog severe convection tornado and wind hazards which are serious threats to life and property As such accurate nowcasting is life critical in this area However it is still a worldwide challenge to improve the forecast accuracy due to less understanding of the formation mechanism evolution pattern internal structure and physical processes As a dominant physical process the ocean atmosphere interaction plays an important role in affecting the weather climate system and disasters over the SCS and surrounding regions particularly vertical mixing between the interface of ocean and atmosphere This research topic aims to provide an in depth understanding of the physical processes related to these disasters applications of data assimilation and the development of forecasting techniques which are essential to enhance disaster prevention and mitigation capabilities In addition in depth research of these disasters and their impacts could help to uncover the hazard causing characteristics and establish a corresponding risk assessment system

Newton and the Origin of Civilization Jed Z. Buchwald, Mordechai Feingold, 2013 Reveals the manner in which Newton strove for nearly half a century to rectify universal history by reading ancient texts through the lens of astronomy and to create a tight theoretical system for interpreting the evolution of civilization on the basis of population dynamics

Deep Learning for Marine Science Haiyong Zheng, Mark C. Benfield, Hongsheng Bi, Xuemin Cheng, 2024-05-15 Deep learning DL mainly composed of deep and complex neural networks such as recurrent network and convolutional network is an emerging research branch in the field of artificial intelligence and machine learning DL revolution has a far reaching impact on all scientific disciplines and every corner of our lives With continuing technological advances marine science is entering into the big data era with the exponential growth of information DL is an effective means of harnessing the power of big data Combined with unprecedented data from cameras acoustic recorders satellite remote sensing and large model outputs DL enables scientists to solve complex problems in biology ecosystems climate energy as well as physical and chemical interactions Although DL

has made great strides it is still only beginning to emerge in many fields of marine science especially towards representative applications and best practices for the automatic analysis of marine organisms and marine environments DL in nowadays marine science mainly leverages cutting edge techniques of deep neural networks and massive data which collected by in situ optical or acoustic imaging sensors for underwater applications such as plankton classification and coral reef detection This research topic aims to expand the applications of marine science to cover all aspects of detection classification segmentation localization and density estimation of marine objects organisms and phenomena Matthew Douglas Sean O'Donnell,2013-11-30 Jesus is King Standing as a central theme of the Gospel of Matthew Jesus s kingly authority has profound implications for how we live in the world and interact with those around us In this reader friendly commentary seasoned pastor Doug O Donnell leads us through the first book of the New Testament highlighting key themes and offering helpful illustrations for preaching Drawing on years of pastoral experience O Donnell shows how Matthew s various emphases including Jesus s messianic titles fulfillment of Old Testament prophecy teaching on the kingdom of heaven and present and future role as judge all relate to Christ s kingship Designed to help pastors faithfully preach God s Word this commentary ultimately highlights Matthew s call to all people to worship and obey Jesus our humble King and gracious Savior Part of the Preaching the Word series **New College School, Oxford** Matthew Jenkinson,2013-06-26 New College School is one of the oldest continually functioning schools in the United Kingdom and indeed the world It was founded in 1379 by William of Wykeham Bishop of Winchester to provide choristers for the chapel of New College Oxford Since then the School has had a peripatetic existence occupying prime locations in the centre of a beautiful university city Its pupils have witnessed centuries of dramatic history including being inspected by Tudor monarchs during the Reformation and being forced out of their schoolroom during the English Civil War The School has also grown over the centuries to include many more boys than those of the original choral foundation educating and preparing them all for distinguished careers and fulfilled lives

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