



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

## **Question 1**

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

# May 2013 Mechanics 1 Mark Scheme

**Scott A. Sisson, Yanan Fan, Mark  
Beaumont**



### **May 2013 Mechanics 1 Mark Scheme:**

*The Roles of Social Media in Education: Affective, Behavioral, and Cognitive Dimensions* Hung Phu Bui, Mark Bedoya Ulla, Veronico N. Tarrayo, Chien Thang Pham, 2023-10-24 technologies in education A large body of research has attempted to measure the extent to which social media change human communication In education researchers and educators have employed social media to increase students engagement inside and outside the classroom They have been exploring the effects of the use of social media on the learning outcome and learners beliefs and experiences However some of their endeavors are inconclusive As the effects of social media in education are context sensitive research results reflecting different contexts around the world will contribute to the literature on social media and education Student engagement in learning a growing interest in educational research is widely believed to contribute to the success of learning The contemporary literature shows that students can engage in learning affectively behaviorally and cognitively Recent studies are also interested in using technology to mediate students social and metacognitive engagement in learning As student engagement is a multidimensional area interdisciplinary studies have recently expanded their literature The use of social media to increase student engagement in learning remains underexplored [The Big Book of Mars](#) Marc

Hartzman, 2020-07-07 The most comprehensive look at our relationship with Mars yesterday today and tomorrow through history archival images pop culture ephemera and interviews with NASA scientists for fans of Andy Weir and For All Mankind Mars has been a source of fascination and speculation ever since the ancient Egyptians observed its blood red hue and named it for their god of war and plague But it wasn't until the 19th century when canals were observed on the surface of the Red Planet suggesting the presence of water 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

**Geotechnical Engineering of Dams** Robin Fell, Patrick MacGregor, David Stapledon, Graeme Bell, Mark Foster, 2014-11-21 This book provides a comprehensive text on the geotechnical and geological aspects of the investigations for and the design and construction of new dams and the review and assessment of existing dams The book provides dam engineers and geologists with a practical approach and gives university students an insight into the subject of dam engineering All phases of investigation design and construction are covered through to the preliminary and detailed design phases and ultimately the construction phase This revised and expanded 2nd edition includes a lengthy new chapter on the assessment of the likelihood of failure of dams by internal erosion and piping **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

*Handbook of Big Data* Peter Bühlmann, Petros Drineas, Michael Kane, Mark van der Laan, 2016-02-22 Handbook of Big Data provides a state of the art overview of the analysis of large scale datasets Featuring contributions from well known experts in statistics and computer science this handbook presents a carefully curated collection of techniques from both industry and academia Thus the text instills a working understanding of key statistical

Information Security Practice and Experience Robert Deng, Feng Bao, Guilin Wang, Jian Shen, Mark Ryan, Weizhi Meng, Ding Wang, 2021-12-16 This book constitutes the refereed proceedings of the 16th International Conference on Information Security Practice and Experience ISPEC 2021 held in Nanjing China in December 2021 The 23 full papers presented in this volume were carefully reviewed and selected from 94 submissions The conference focus on new information security technologies including their applications and their integration with IT systems in various vertical sectors

**Handbook of Approximate Bayesian Computation** Scott A. Sisson, Yanan Fan, Mark Beaumont, 2018-09-03 As the world becomes increasingly complex so do the statistical models required to analyse the challenging problems ahead For the very first time in a single volume the Handbook of Approximate Bayesian Computation ABC presents an extensive overview of the theory practice and application of ABC methods These simple but powerful statistical techniques take Bayesian statistics beyond the need to specify overly simplified models to the setting where the model is defined only as a process that generates data This process can be arbitrarily complex to the point where standard Bayesian techniques based on working with tractable likelihood functions would not be viable ABC methods finesse the problem of model complexity within the Bayesian framework by exploiting modern computational power thereby permitting approximate Bayesian analyses of models that would otherwise be impossible to implement The Handbook of ABC provides illuminating insight into the world of Bayesian modelling for intractable models for both experts and newcomers alike It is an essential reference book for anyone interested in learning about and implementing ABC techniques to analyse complex models in the modern world

*Polymers and Other Advanced Materials* Ting Joo Fai, James E. Mark, Paras N. Prasad, 2013-11-11 Proceedings of the Third International Conference on Frontiers of Polymers and Advanced Materials held in Kuala Lumpur Malaysia January 16 20 1995

Encyclopedia of Polymer Science and Technology, Concise Herman F. Mark, 2013-10-16 The compact affordable reference revised and updated The Encyclopedia of Polymer Science and

Technology Concise Third Edition provides the key information from the complete twelve volume Mark's Encyclopedia in an affordable condensed format Completely revised and updated this user friendly desk reference offers quick access to all areas of polymer science including important advances in nanotechnology imaging and analytical techniques controlled polymer architecture biomimetics and more all in one volume Like the twelve volume full edition the Encyclopedia of Polymer Science and Technology Concise Third Edition provides both SI and common units carefully selected key references for each article and hundreds of tables charts figures and graphs

Free-Surface Flow Nikolaos D. Katopodes, 2018-10-31 Free Surface Flow Computational Methods presents a detailed analysis of numerical schemes for shallow water waves It includes practical applications for the numerical simulation of flow and transport in rivers and estuaries the dam break problem and overland flow Closure models for turbulence such as Reynolds Averaged Navier Stokes and Large Eddy Simulation are presented coupling the aforementioned surface tracking techniques with environmental fluid dynamics While many computer programs can solve the partial differential equations describing the dynamics of fluids many are not capable of including free surfaces in their simulations Provides numerical solutions of the turbulent Navier Stokes equations in three space dimensions Includes closure models for turbulence such as Reynolds Averaged Navier Stokes and Large Eddy Simulation Practical applications are presented for the numerical simulation of flow and transport in rivers and estuaries the dam break problem and overland flow

**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

**World Development Report 2019** World Bank, 2018-10-31 Work is constantly reshaped by technological progress New ways of production are adopted markets expand and societies evolve But some changes provoke more attention than others in part due to the vast uncertainty involved in making predictions about the future The 2019 World Development Report will study how the nature of work is changing as a result of advances in technology today Technological progress disrupts existing systems A new social contract is needed to smooth the transition and guard against rising inequality Significant investments in human capital throughout a person's lifecycle are vital to this effort If workers are to stay competitive against machines they need to train or retool existing skills A social protection system that includes a minimum basic level of protection for workers and citizens can complement new forms of employment Improved private sector policies to encourage startup activity and

competition can help countries compete in the digital age Governments also need to ensure that firms pay their fair share of taxes in part to fund this new social contract The 2019 World Development Report presents an analysis of these issues based upon the available evidence

**Measured Constructs** Cyril J. Weir,Ivana Vidaković,Evelina D. Galaczi,2013-05-23 This volume establishes how English language constructs were measured in Cambridge English examinations over the period 1913 to 2012 An addition to the Studies in Language Testing series this volume provides an overview of English language testing over the last century with coverage of key theoretical and practical aspects of the assessment of reading listening writing and speaking skills It includes examples of the Cambridge English exams old and new and is the first volume to describe in a systematic way the different theoretical influences which have shaped the development of the constructs underlying Cambridge English exams in the last 100 years

**Scientific and Technical Aerospace Reports** ,1993

**Cone Penetration Testing 2022** Guido Gottardi,Laura Tonni,2022-06-23 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the broad and dynamic field of cone penetration testing

**Superalloys 2020** Sammy Tin,Mark Hardy,Justin Clews,Jonathan Cormier,Qiang Feng,John Marcin,Chris O'Brien,Akane Suzuki,2020-08-28 The 14th International Symposium on Superalloys Superalloys 2020 highlights technologies for lifecycle improvement of superalloys In addition to the traditional focus areas of alloy development processing mechanical behavior coatings and environmental effects this volume includes contributions from academia supply chain and product user members of the superalloy community that highlight technologies that contribute to improving manufacturability affordability life prediction and performance of superalloys

**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

*Nanobrain* Anirban Bandyopadhyay, 2020-04-03 Making an artificial brain is not a part of artificial intelligence It will be a revolutionary journey of mankind exploring a science where one cannot write an equation a material will vibrate like geometric shape and then those shapes will change to make decisions Geometry of silence plays like a musical instrument to mimic a human brain our thoughts imagination everything would be a 3D shape playing as music composing music would be the brain s singular job For a century the Turing machine ruled human civilization it was believed that irrespective of complexity all events add up linearly This book is a thesis to explore the science of decision making where events are 3D geometric shapes events grow within and above never side by side The book documents inventions and discoveries in neuroscience computer science materials science mathematics and chemistry that explore the possibility of brain or universe as a time crystal The philosophy of Turing the philosophy of membrane based neuroscience and the philosophy of linear sequential thought process are challenged here by considering that a nested time crystal encompasses the entire conscious universe Instead of an algorithm the pattern of maximum free will is generated mathematically and that very pattern is encoded in materials such that its natural vibration integrates random events exactly similar to the way nature does it in every remote corner of our universe Find how an artificial brain avoids any necessity for algorithm or programming using the pattern of free will **Motor** ,1952 **New York Magazine** ,1973-01-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

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