

**SMA0/02: AS Paper 2 Part A Statistics Mark scheme**

Question	Scheme	Marks	AOs
1(a)	$[Q_2 =] (5 +) \frac{12}{15} \times 5$	M1	1.1a
	$= 9$	A1	1.1b
	or (use of $(n+1)$ ) $(5 +) \frac{12.5}{15} \times 5$ or 9.166... awrt 9.17	(2)	
(b)	$[s_x =] \sqrt{\frac{5675}{30} - \left(\frac{355}{30}\right)^2} = \sqrt{49.14...}$	M1	1.1a
	= awrt 7.01	A1	1.1b
	Accept $\left[ s_x = \sqrt{\frac{5675 - 30\left(\frac{355}{30}\right)^2}{29}} = 7.1294... \right]$	(2)	
(c)	$x = \frac{t + 15}{2}$ or $t = 2x + 15$	M1	3.1b
	Median = $2 \times 9 + 15 = 33$ (allow awrt 33.3 from "9.17" in (a))	A1ft	1.1b
	Sd = $2 \times 7.01 = 14.02...$ (awrt 14.0) [allow awrt 14.3 if $s$ used]	A1ft	1.1b
		(3)	
(d)	The median time is "33" and "33" < 35 so 50% (30) should finish in 35 minutes.		
	ALT Probability of being < 35 mins is $\frac{18}{30}$ \ $\frac{18}{30} \times 60 = 36$ applicants to choose from.	M1	2.4
	It is likely that they will fill all 25 positions [providing those offered accept]	A1	2.2b
		(2)	
<b>Notes:</b> (9 marks)			
(a) M1: For a suitable fraction $\times 5$ (ignore end points) A1: For 9 or awrt 9.17 if using $n + 1$			
(b) M1: For a correct expression for $s_x$ and $S_x$ or $s_x$ A1: For awrt $S_x = 7.01$ or $s_x =$ awrt 7.13			
(c) M1: For realising $x = \frac{t + 15}{2}$ and then rearranging to get a correct equation with $t$ as the subject May be implied by a correct answer for the median of $t$ . A1ft: ft their median A1ft: ft their $S_x$ or $s_x$ . NB using $s$ gives awrt 14.3			
(d) M1: For a suitable comparison following through their value for the median of $t$ . A1: A correct conclusion in context following through their value for the median of $t$ .			

# Mechanics 1 Summer 2013 Mark Scheme

**Climério Paulo da Silva Neto**



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

**ACCA Options P6 Advanced Taxation (FA 2013)Revision Kit 2014** BPP Learning Media,2013-11-01 The examiner reviewed P6 Practice Revision Kit provides invaluable guidance on how to approach the exam and contains past ACCA exam questions for you to try to develop your application skills Questions are grouped by topic so that you can easily identify what they cover Detailed solutions provide tips advise you how to approach questions and tell you how to gain easy marks Examiner s comments tell you what the examiner is looking for in answers

**Grading for Growth** David Clark,Robert Talbert,2023-07-03 Are you satisfied with your current and traditional grading system Does it accurately reflect your students learning and progress Can it be gamed Does it lead to grade grubbing and friction with your students The authors of this book two professors of mathematics with input from colleagues across disciplines and institutions offer readers a fundamentally more effective and authentic approach to grading that they have implemented for over a decade Recognizing that traditional grading penalizes students in the learning process by depriving them of the formative feedback that is fundamental to improvement the authors offer alternative strategies that encourage revision and growth Alternative grading is concerned with students eventual level of understanding This leads to big changes Students take time to review past failures and learn from them Conversations shift from why did I lose a point for this to productive discussions of content and process Alternative grading can be used successfully at any level in any situation and any discipline in classes that range from seminars to large multi section lectures This book offers a comprehensive introduction to alternative grading beginning with a framework and rationale for implementation and evidence of its effectiveness The heart of the book includes detailed examples including variations on Standards Based Grading Specifications Grading and ungrading of how alternative grading practices are used in all kinds of classroom environments disciplines and institutions with a focus on first hand accounts by faculty who share their practices and experience The book includes a workbook chapter that takes readers through a step by step process for building a prototype of their own alternatively graded class and ends with concrete practical time tested advice for new practitioners The underlying principles of alternative grading involve Evaluating student work using clearly defined and context appropriate content standards Giving students helpful actionable feedback Summarizing the feedback with marks that indicate progress rather than arbitrary numbers Allowing students to revise without penalty using the feedback they receive until the standards are met or exceeded This book is intended for faculty interested in exploring alternative forms of learning assessment as well as those currently using alternative grading systems who are looking for ideas and options to refine practice

**Ships and Offshore Structures XIX** Carlos Guedes Soares,Y. Garbatov,2015-09-03 This three volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of *Cloud*

*Computing and Security* Xingming Sun, Han-Chieh Chao, Xingang You, Elisa Bertino, 2017-10-30 This two volume set LNCS 10602 and LNCS 10603 constitutes the thoroughly refereed post conference proceedings of the Third International Conference on Cloud Computing and Security ICCCS 2017 held in Nanjing China in June 2017 The 116 full papers and 11 short papers of these volumes were carefully reviewed and selected from 391 submissions The papers are organized in topical sections such as information hiding cloud computing IOT applications information security multimedia applications optimization and classification

*Advances in Fluid-Structure Interaction* Marianna Braza, Alessandro Bottaro, Mark Thompson, 2016-04-07 This book addresses flow separation within the context of fluid structure interaction phenomena Here new findings from two research communities focusing on fluids and structures are brought together emphasizing the importance of a unified multidisciplinary approach The book covers the theory experimental findings numerical simulations and modeling in fluid dynamics and structural mechanics for both incompressible and compressible separated unsteady flows There is a focus on the morphing of lifting structures in order to increase their aerodynamic and or hydrodynamic performances to control separation and to reduce noise as well as to inspire the design of novel structures The different chapters are based on contributions presented at the ERCOFTAC Symposium on Unsteady Separation in Fluid Structure Interaction held in Mykonos Greece 17-21 June 2013 and include extended discussions and new highlights The book is intended for students researchers and practitioners in the broad field of computational fluid dynamics and computational structural mechanics It aims at supporting them while dealing with practical issues such as developing control strategies for unsteady separation and applying smart materials and biomimetic approaches for design and control

*Beyond the Dynamical Universe* Michael Silberstein, William Mark Stuckey, Timothy McDevitt, 2018 A novel approach to the unresolved issues of theoretical physics and the philosophy foundations of physics

**Materializing the Foundations of Quantum Mechanics** Climério Paulo da Silva Neto, 2023-05-24 This book offers a history of the instrumentation used to materialize the early thought experiments devised in the Einstein Bohr disputes over the foundations of quantum mechanics It shows how the second world war and cold war fostered the development of materials instruments and systems that made it possible to create manipulate and detect single quantum systems thus creating the material conditions for experiments in foundations of quantum mechanics and for a broad spectrum of experimental inquiries on the structure and properties of matter which underlay the creation of new research fields such as quantum optics quantum information and atomic molecular and optical physics Discussing research and development performed in diverse contexts this book reveals how physicists carried instruments and the knowledge they embodied through disciplinary and geographic frontiers to probe entanglement a most intriguing feature of the quantum world

**Graph-Theoretic Concepts in Computer Science** Andreas Brandstädt, Klaus Jansen, Rüdiger Reischuk, 2013-11-12 This book constitutes the thoroughly refereed proceedings of the 39th International Workshop on Graph Theoretic Concepts in Computer Science WG 2013 held in L Beck Germany in June 2013 The 34 revised

full papers presented were carefully reviewed and selected from 61 submissions The book also includes two abstracts The papers cover a wide range of topics in graph theory related to computer science such as structural graph theory with algorithmic or complexity applications design and analysis of sequential parallel randomized parameterized and distributed graph and network algorithms computational complexity of graph and network problems computational geometry graph grammars graph rewriting systems and graph modeling graph drawing and layouts random graphs and models of the web and scale free networks and support of these concepts by suitable implementations and applications

**Computer Security**  
Ioana Boureanu, Constantin Cătălin Drăgan, Mark Manulis, Thanassis Giannetsos, Christoforos Dadoyan, Panagiotis Gouvas, Roger A. Hallman, Shujun Li, Victor Chang, Frank Pallas, Jörg Pohle, Angela Sasse, 2020-12-23 This book constitutes the refereed post conference proceedings of the Interdisciplinary Workshop on Trust Identity Privacy and Security in the Digital Economy DETIPS 2020 the First International Workshop on Dependability and Safety of Emerging Cloud and Fog Systems DeSECSys 2020 Third International Workshop on Multimedia Privacy and Security MPS 2020 and the Second Workshop on Security Privacy Organizations and Systems Engineering SPOSE 2020 held in Guildford UK in September 2020 in conjunction with the 25th European Symposium on Research in Computer Security ESORICS 2020 A total of 42 papers was submitted For the DETIPS Workshop 8 regular papers were selected for presentation Topics of interest address various aspect of the core areas in relation to digital economy For the DeSECSys Workshop 4 regular papers are included The workshop had the objective of fostering collaboration and discussion among cyber security researchers and practitioners to discuss the various facets and trade o s of cyber security In particular applications opportunities and possible shortcomings of novel security technologies and their integration in emerging application domains For the MPS Workshop 4 regular papers are presented which cover topics related to the security and privacy of multimedia systems of Internet based video conferencing systems e g Zoom Microsoft Teams Google Meet online chatrooms e g Slack as well as other services to support telework capabilities For the SPOSE Workshop 3 full papers were accepted for publication They reflect the discussion exchange and development of ideas and questions regarding the design and engineering of technical security and privacy mechanisms with particular reference to organizational contexts

A Project-Based Introduction to Computational Statics  
Andreas Öchsner, 2020-11-13 This book uses a novel concept to teach the finite element method applying it to solid mechanics This major conceptual shift takes away lengthy theoretical derivations in the face to face interactions with students and focuses on the summary of key equations and concepts and to practice these on well chosen example problems For this new 2nd edition many examples and design modifications have been added so that the learning by doing features of this book make it easier to understand the concepts and put them into practice The theoretical derivations are provided as additional reading and students must study and review the derivations in a self study approach The book provides the theoretical foundations to solve a comprehensive design project in tensile testing A classical clip on extensometer serves as

the demonstrator on which to apply the provided concepts The major goal is to derive the calibration curve based on different approaches i e analytical mechanics and based on the finite element method and to consider further design questions such as technical drawings manufacturing and cost assessment Working with two concepts i e analytical and computational mechanics strengthens the vertical integration of knowledge and allows the student to compare and understand the different concepts as well as highlighting the essential need for benchmarking any numerical result

*Recent Trends in Applied Artificial Intelligence* Moonis Ali,Tibor Bosse,Koen V. Hindriks,Mark Hoogendoorn,Catholijn M. Jonker,Jan Treur,2013-05-20 This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems IEA AIE 2013 held in Amsterdam The Netherlands in June 2013 The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions The papers focus on the following topics auctions and negotiation cognitive modeling crowd behavior modeling distributed systems and networks evolutionary algorithms knowledge representation and reasoning pattern recognition planning problem solving robotics text mining advances in recommender systems business process intelligence decision support for safety related systems innovations in intelligent computation and applications intelligent image and signal processing and machine learning methods applied to manufacturing processes and production systems

*Towards Autonomous Robotic Systems* Ashutosh Natraj,Stephen Cameron,Chris Melhuish,Mark Witkowski,2014-06-27 This book constitutes the refereed proceedings of the 14th Conference on Advances in Autonomous Robotics TAROS 2013 held in Oxford UK in August 2013 The 36 revised full papers presented together with 25 extended abstracts were carefully reviewed and selected from 89 submissions The papers cover various topics such as artificial intelligence bio inspired and aerial robotics computer vision control humanoid and robotic arm swarm robotics verification and ethics

**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

**Civil Engineering and Urban Research, Volume 1** Hazem Samih Mohamed,Jinfang

Hou,2023-03-28 Civil Engineering and Urban Research collects papers resulting from the conference on Civil Architecture and Urban Engineering ICCAUE 2022 Xining China 24 26 June 2022 The primary goal is to promote research and developmental activities in civil engineering architecture and urban research Moreover it aims to promote scientific information interchange between scholars from the top universities business associations research centers and high tech enterprises working all around the world The conference conducts in depth exchanges and discussions on relevant topics such as civil engineering and architecture aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of urban engineering civil engineering and architecture design By sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world comprehend the academic development trend and broaden research ideas So as to strengthen international academic research academic topics exchange and discussion and promote the industrialization cooperation of academic achievements      **Computational Methods for Solids and Fluids** Adnan

Ibrahimbegovic,2016-02-12 This volume contains the best papers presented at the 2nd ECCOMAS International Conference on Multiscale Computations for Solids and Fluids held June 10 12 2015 Topics dealt with include multiscale strategy for efficient development of scientific software for large scale computations coupled probability nonlinear mechanics problems and solution methods and modern mathematical and computational setting for multi phase flows and fluid structure interaction The papers consist of contributions by six experts who taught short courses prior to the conference along with several selected articles from other participants dealing with complementary issues covering both solid mechanics and applied mathematics      **Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International

Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events      *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

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

Origin of Turbulence Hua-Shu Dou, 2022-03-25 This book presents the new discovery of the origin of turbulence from Navier Stokes equations The fully developed turbulence is found to be composed of singularities of flow field The mechanisms of flow stability and turbulent transition are described using the energy gradient theory which states all the flow instability and breakdown resulted from the gradient of the total mechanical energy normal to the flow direction This approach is universal for flow instability in Newtonian flow and non Newtonian flow The theory has been used to solve several problems such as plane and pipe Poiseuille flows plane Couette flow Taylor Couette flow flows in straight coaxial annulus flows in curved pipes and ducts thermal convection flow viscoelastic flow and magnet fluid flow etc The theory is in agreement with results from numerical simulations and experiments The analytical method used in this book is novel and is different from the traditional approaches This book includes the fundamental basics of flow stability and turbulent transition the essentials of the energy gradient theory and the applications of the theory to several practical problems This book is suitable for researchers and graduate students

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<https://staging.conocer.cide.edu/book/book-search/default.aspx/Healing%20Back%20Pain%20Naturally%20The%20Mindbody%20Program%20Proven%20To%20Work.pdf>

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web solution we use the relation  $n = n_0 \left( \frac{1}{2} \right)^{\frac{t}{T}}$  where  $n$  is the number of nuclei remaining after time  $t$ ,  $n_0$  is the initial number of nuclei, and  $T$  is the half-life. For example, if a sample of 100 g of a substance with a half-life of 4 days decays to a mass of 30 mg in 16 days, we can calculate the initial mass of the sample. When we have  $n$  and  $t$ , rearranging the equation used in example 2 we obtain

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web nov 16 2020 every decaying substance has its own half life because half life is the amount of time required for exactly half of our original substance to decay leaving exactly half of what we started with because every substance decays at a different rate each substance will have a different half life

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web jun 21 2021 solution if we compare the time that has passed to the isotope s half life we note that 44 0 s is exactly 4 half lives so we can use equation 3 1 1 with n 4 substituting and solving results in the following amount remaining

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