

EDEXCEL DECISION MATHEMATICS D1 (6689) – JANUARY 2013 FINAL MARK SCHEME

Question Number	Scheme	Marks																				
1 (a)	<table><tr><td>N</td><td>E</td><td>R</td><td>Qn</td></tr><tr><td>72</td><td>8</td><td>8.5</td><td>N</td></tr><tr><td></td><td>8.5</td><td>8.485 294 118</td><td>N</td></tr><tr><td></td><td>8.485 294 118</td><td>8.485 281 374</td><td>N</td></tr><tr><td></td><td>8.485 281 374</td><td>8.485 281 374</td><td>Y</td></tr></table>	N	E	R	Qn	72	8	8.5	N		8.5	8.485 294 118	N		8.485 294 118	8.485 281 374	N		8.485 281 374	8.485 281 374	Y	M1 A1
	N	E	R	Qn																		
	72	8	8.5	N																		
		8.5	8.485 294 118	N																		
	8.485 294 118	8.485 281 374	N																			
	8.485 281 374	8.485 281 374	Y																			
	Output is R = 8.485 281 4	A1																				
		A1 (4)																				
(b)	We would get a negative output for R/ We would get the negative square root	B1 (1)																				
(c)	E cannot be zero	B1 (1)																				
		Total 6 marks																				
2 (a)	Pivot 1 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 13.5 \rceil = 14$ letter N reject A – N	M1 A1																				
	Pivot 2 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 20.5 \rceil = 21$ letter U reject U – Z																					
	Pivot 3 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 17.5 \rceil = 18$ letter R reject R – T	A1																				
	Pivot 4 = $\left\lceil \frac{1+26}{2} \right\rceil = 16$ letter P – located	A1 (4)																				
(b)	E.g. The maximum number of letters at the start of each iteration is 26, 13, 6, 3, 1 So a maximum of 5 iterations is necessary	M1 A1 (2) Total 6 marks																				

D1 2013 June Mark Scheme

**Mark Hulett, Charles Lee Bevins, Thanh
Kha Phan**



D1 2013 June Mark Scheme:

Northern Lights Donald E. Abelson, 2016-11-01 Think tanks are often thought of as a uniquely US phenomenon. Although the largest concentration of think tanks is in the United States, they can be found in virtually every country. Often overlooked, Canada's think tanks represent a highly diverse and eclectic group of public policy organizations such as the Canadian Centre for Policy Alternatives, the C D Howe Institute, the Fraser Institute, and the Mowat Centre, among others. In *Northern Lights*, Donald Abelson explores the rise of think tanks in Canada and addresses many of the most commonly asked questions about how and under what circumstances they are able to affect public opinion and public policy. He identifies the ways in which Canadian think tanks often prioritize political advocacy over policy research and seeks to explain why these organizations are well suited and equipped to shape the discourse around key policy issues. The first comprehensive examination of think tanks in Canada, *Northern Lights* is both a primer for those looking to understand the role and function of think tanks in the policy making process and a guide to the leading policy institutes in the country. *Foundational Texts of Mormonism* Mark Ashurst-McGee, Robin Scott Jensen, Sharalyn D. Howcroft, 2018 Joseph Smith, founding prophet and martyr of the Church of Jesus Christ of Latter-day Saints, personally wrote, dictated, or commissioned thousands of documents. Among these are several highly significant sources that scholars have used over and over again in their attempts to reconstruct the founding era of Mormonism, usually by focusing solely on content without a deep appreciation for how and why a document was produced. This book offers case studies of the sources most often used by historians of the early Mormon experience. Each chapter takes a particular document as its primary subject, considering the production of a document as an historical event in itself, with its own background, purpose, circumstances, and consequences. The documents are examined not merely as sources of information but as artifacts that reflect aspects of the general culture and particular circumstances in which they were created. This book will help historians working in the founding era of Mormonism gain a more solid grounding in the period's documentary record by supplying important information on major primary sources.

Yearbook of International Organizations 2013-2014 (Volume 3) Union of International Associations, 2013-08-09 The Yearbook of International Organizations provides the most extensive coverage of non-profit international organizations currently available. Detailed profiles of international non-governmental and intergovernmental organizations (IGO) collected and documented by the Union of International Associations can be found here. In addition to the history, aims, and activities of international organizations, with their events, publications, and contact details, the volumes of the Yearbook include networks between associations, biographies of key people involved, and extensive statistical data. Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3. [Advances in The Immunology of Host Defense Peptide: Mechanisms and Applications of Antimicrobial Functions and Beyond](#) Mark Hulett, Charles Lee Bevins, Thanh Kha Phan, 2021-04-07

University-Community Partnerships for Promoting Social Responsibility in Higher Education Enakshi

Sengupta,Patrick Blessinger,Craig Mahoney,2020-07-24 This book provides empirical evidence on how universities have considered social responsibilities as their prime focus and engaged with civil society to enhance their values Case studies from Indonesia to the United Kingdom enrich the book through experience interventions and narratives The British National Bibliography Arthur James Wells,1966

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Table of Contents D1 2013 June Mark Scheme

1. Understanding the eBook D1 2013 June Mark Scheme
 - The Rise of Digital Reading D1 2013 June Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying D1 2013 June Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an D1 2013 June Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from D1 2013 June Mark Scheme
 - Personalized Recommendations
 - D1 2013 June Mark Scheme User Reviews and Ratings
 - D1 2013 June Mark Scheme and Bestseller Lists
5. Accessing D1 2013 June Mark Scheme Free and Paid eBooks
 - D1 2013 June Mark Scheme Public Domain eBooks
 - D1 2013 June Mark Scheme eBook Subscription Services

- D1 2013 June Mark Scheme Budget-Friendly Options
- 6. Navigating D1 2013 June Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - D1 2013 June Mark Scheme Compatibility with Devices
 - D1 2013 June Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of D1 2013 June Mark Scheme
 - Highlighting and Note-Taking D1 2013 June Mark Scheme
 - Interactive Elements D1 2013 June Mark Scheme
- 8. Staying Engaged with D1 2013 June Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers D1 2013 June Mark Scheme
- 9. Balancing eBooks and Physical Books D1 2013 June Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection D1 2013 June Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine D1 2013 June Mark Scheme
 - Setting Reading Goals D1 2013 June Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of D1 2013 June Mark Scheme
 - Fact-Checking eBook Content of D1 2013 June Mark Scheme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web toggle on use strain rate dependent data in the material editor a column labeled rate appears in the tabular data area fill in each row with the appropriate values for special table editing options or to read data from an ascii file press mouse button 3 for more information see entering tabular data

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web the concrete damaged plasticity model can be regularized in abaqus standard using viscoplasticity by permitting stresses to be outside of the yield surface we use a generalization of the duvaut lions regularization according to which the viscoplastic strain rate tensor ε_v^p is defined as

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web abaqus cae property module optional parameters dependencies in an abaqus explicit analysis this parameter is relevant only for type power law or type yield ratio set this parameter equal to the number of field variable dependencies in the definition of material parameters in addition to temperature

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web mar 5 2015 given you have a target strain rate on a defined element set the pressure will be calculated in order that

the maximum strain rate on this element set is always between 0.708 and 1.5

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web abaqus cae user's manual 12.6.3 entering strain rate dependent data if your material includes strain rate dependence you can enter data to define how material properties vary with strain rate to enter strain rate dependent data toggle on use strain rate dependent data in the material editor

7.8 evaluation of strain rate dependent data in abaqus explicit - May 04 2023

web to overcome this problem abaqus explicit computes the equivalent plastic strain rate used for the evaluation of strain rate dependent data in terms of a factor that facilitates filtering the high frequency oscillations you can specify the value of the strain rate factor

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web strain rate dependence can be defined by entering hardening curves at different strain rates directly or by defining yield stress ratios to specify the rate dependence independently direct entry of test data

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web input file usage use the following options to include creep behavior in the material model definition material creep use the following options to define creep in conjunction with gasket behavior gasket behavior creep abaqus cae usage property module material editor mechanicalplasticitycreep choosing a creep model

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web the strain rate can be defined by creating a variable in a subroutine and assigning it to the desired strain rate value but in order to be better able to answer i need you to explain more

2.2.10 rate dependent plasticity in abaqus standard - Nov 29 2022

web young's modulus 200×10^3 the rate dependence parameters are as follows for the test that verifies the temperature dependencies the power law is entered as a piecewise linear relationship for the cases in which rate dependent test data are specified directly the units are not important

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web if this parameter is omitted it is assumed that the rate dependent material behavior depends only on temperature see specifying field variable dependence in material data definition section 16.1.2 of the abaqus analysis user's manual for more information

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web oct 1 2013 this paper introduces the use of rate dependent springs to component based joint models this allows strain rate hardening as well as strain rate induced reductions in ductility to be included in component spring models for

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web abaqus cae usage property module material editor name use the menu bar under the material options list to add behaviors to a material large strain considerations when giving material properties for finite strain calculations stress means true cauchy stress force per current area and strain means logarithmic strain

defining rate dependent yield with yield stress ratios - Mar 02 2023

web abaqus allows you to define a material's yield behavior accurately when the yield strength depends on the rate of straining and the anticipated strain rates are significant you can define strain rate dependence in two ways enter hardening curves at different strain rates directly as described in the following sections

modelling time dependent behavior of buried polyethylene pipes using abaqus - Aug 27 2022

web constant strain rates ranging from 10^{-5} s to 10^{-1} s these strain rate dependent stress strain relations are used in the input file and were simulated using fe modelling using abaqus same size of the specimen i.e. 12.7 mm diameter and 25.4 mm height is modelled in the fe analysis figure 1 shows the fe mesh developed both