

[Maximum mark: 17]



The Elite Traveller and Condé Nast Traveller are two magazines that review and rank the best restaurants in Paris. Based on different sets of criteria, scores out of 10 are assigned to 8 restaurants in Paris (labelled A to H). The raw data is collated in the following table.

Restaurants	A	B	C	D	E	F	G	H
Elite Traveller's score (x)	9.3	6.7	4.9	7.6	9.7	4.6	5.6	7.2
Condé Nast Traveller's score (y)	8.0	6.8	4.8	7.2	9.3	4.2	6.4	7.1
Elite Traveller's rank								
Condé Nast Traveller's rank								

(a) (i) Find the Pearson's product-moment correlation coefficient, r , for this data. [1]

(ii) Using the value of r , interpret the relationship between the Elite Traveller's score and the Condé Nast Traveller' score. [1]

(b) Find the equation of the line of regression, y on x . [1]

(c) (i) Use your regression equation from part (b) to estimate the Condé Nast Traveller's score when the Elite Traveller awarded a perfect 10. [1]

(ii) State whether this estimate is reliable. Justify your answer. [1]

(d) Complete the two empty rank rows in the table above. [1]

(e) (i) Find the value of the Spearman's rank correlation coefficient, r_s . [1]

(ii) Comment on the result obtained for r_s . [1]

The Director of the Elite Traveller Magazine believes that the score for restaurant E was too high and decreased the score from 9.7 to 9.2.

(f) Explain why the value of the Spearman's rank correlation coefficient r_s does not change. [1]

Mark Scheme

(a) (i) $r = 0.901$ [by using G.D.C.]

(ii) Since the correlation coefficient is positive and close to 1, there is a very strong positive correlation between the Elite Traveller's score and Condé Nast Traveller' score.

(b) $y = 0.085x + 2.38$ [by using G.D.C.]

(c) (i) Substituting $x = 10$ into the equation of the regression line, we get

$$y = 0.085(10) + 2.38$$

≈ 9.19



(ii) This estimate is not reliable as $x = 10$ falls out of the data range [3, 6, 8, 7].

(d) Rearranging the scores of these restaurants in descending order, we obtain their ranks for each magazine in the following table.

Restaurants	A	B	C	D	E	F	G	H
Elite Traveller's rank	3	7	6	4	1	2	5	8
Condé Nast Traveller's rank	3	6.5	6.5	4	1	2	5	7

Ib Math Studies Paper 23

Michael Hoelscher

Ib Math Studies Paper 23:

Monographic Series Library of Congress, *Library of Congress Catalogs* Library of Congress,1978 *The AKSZ Construction in Derived Algebraic Geometry as an Extended Topological Field Theory* Damien Calaque,Rune Haugseng,Claudia Scheimbauer,2025-05-29 View the abstract Learning and Understanding National Research Council,Division of Behavioral and Social Sciences and Education,Center for Education,Committee on Programs for Advanced Study of Mathematics and Science in American High Schools,2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs **Mathematical Reviews** ,2001 *Resources in Education* ,1984 European Congress of Mathematics Carles Casacuberta,Rosa Maria Miro-Roig,Joan Verdera,Sebastia Xambo-Descamps,2012-12-06

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 - The Rise of Digital Reading Ib Math Studies Paper 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Studies Paper 23
 - 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 Ib Math Studies Paper 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Studies Paper 23
 - Personalized Recommendations

- Ib Math Studies Paper 23 User Reviews and Ratings
- Ib Math Studies Paper 23 and Bestseller Lists

5. Accessing Ib Math Studies Paper 23 Free and Paid eBooks

- Ib Math Studies Paper 23 Public Domain eBooks
- Ib Math Studies Paper 23 eBook Subscription Services
- Ib Math Studies Paper 23 Budget-Friendly Options

6. Navigating Ib Math Studies Paper 23 eBook Formats

- ePUB, PDF, MOBI, and More
- Ib Math Studies Paper 23 Compatibility with Devices
- Ib Math Studies Paper 23 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ib Math Studies Paper 23
- Highlighting and Note-Taking Ib Math Studies Paper 23
- Interactive Elements Ib Math Studies Paper 23

8. Staying Engaged with Ib Math Studies Paper 23

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ib Math Studies Paper 23

9. Balancing eBooks and Physical Books Ib Math Studies Paper 23

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ib Math Studies Paper 23

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ib Math Studies Paper 23

- Setting Reading Goals Ib Math Studies Paper 23
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ib Math Studies Paper 23

- Fact-Checking eBook Content of Ib Math Studies Paper 23

- 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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dec 17 2013 i have created a substructure in abaqus as output i will like to see the substructure matrices mass stiffness and damping matrices however i m only able to write the mass and stiffness matrices to an output file mtx does anyone know how to create an output file including both the mass stiffness and damping matrices of the substructure

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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substructures are collections of elements from which the internal degrees of freedom have been eliminated retained nodes

and degrees of freedom are those that are recognized externally at the usage level when the substructure is used in an analysis and they are defined during generation of the substructure

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been