

A meteorologist believes that there is a relationship between the height above sea level,  $h$  m, and the air temperature,  $t^{\circ}\text{C}$ . Data is collected at the same time from 9 different places on the same mountain. The data is summarised in the table below.

$h$	1400	1100	260	840	900	550	1230	100	770
$t$	3	10	20	9	10	13	5	24	16

[You may assume that  $\sum h = 7150$ ,  $\sum t = 110$ ,  $\sum h^2 = 7\,171\,500$ ,  $\sum t^2 = 1716$ ,  $\sum th = 64\,980$  and  $S_r = 371.56$ ]

- (a) Calculate  $S_{th}$  and  $S_{hh}$ . Give your answers to 3 significant figures.

(3)
- (b) Calculate the product moment correlation coefficient for this data.

(2)
- (c) State whether or not your value supports the use of a regression equation to predict the air temperature at different heights on this mountain. Give a reason for your answer.

(1)
- (d) Find the equation of the regression line of  $t$  on  $h$  giving your answer in the form  $t = a + bh$ .

(4)
- (e) Interpret the value of  $b$ .

(1)
- (f) Estimate the difference in air temperature between a height of 500m and a height of 1000 m.

(2)

# Maths S1 June 2013

**Shigeru Furuichi**



## Maths S1 June 2013:

Cambridge International AS and A Level Mathematics: Mechanics 1 Coursebook Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Mechanics 1 M1 unit of Cambridge AS and A Level Mathematics 9709 This revised edition adds clarifications to sections on forces and equilibrium kinematics of motion in a straight line and Newton's laws of motion All of the review questions have been updated to reflect changes in the style of questions asked in the course

**Inequalities** Shigeru Furuichi, 2020-01-15 Inequalities appear in various fields of natural science and engineering Classical inequalities are still being improved and or generalized by many researchers That is inequalities have been actively studied by mathematicians In this book we selected the papers that were published as the Special Issue Inequalities in the journal Mathematics MDPI publisher They were ordered by similar topics for readers convenience and to give new and interesting results in mathematical inequalities such as the improvements in famous inequalities the results of Frame theory the coefficient inequalities of functions and the kind of convex functions used for Hermite Hadamard inequalities The editor believes that the contents of this book will be useful to study the latest results for researchers of this field

*Applied Analysis in Biological and Physical Sciences* Jim M. Cushing, M. Saleem, H. M. Srivastava, Mumtaz Ahmad Khan, M. Merajuddin, 2016-12-01 The book contains recent developments and contemporary research in mathematical analysis and in its application to problems arising from the biological and physical sciences The book is of interest to readers who wish to learn of new research in such topics as linear and nonlinear analysis mathematical biology and ecology dynamical systems graph theory variational analysis and inequalities functional analysis differential and difference equations partial differential equations approximation theory and chaos All papers were prepared by participants at the International Conference on Recent Advances in Mathematical Biology Analysis and Applications ICMBAA 2015 held during 4-6 June 2015 in Aligarh India A focal theme of the conference was the application of mathematics to the biological sciences and on current research in areas of theoretical mathematical analysis that can be used as sophisticated tools for the study of scientific problems The conference provided researchers academicians and engineers with a platform that encouraged them to exchange their innovative ideas in mathematical analysis and its applications as well as to form interdisciplinary collaborations The content of the book is divided into three parts Part I contains contributions from participants whose topics are related to nonlinear dynamics and its applications in biological sciences Part II has contributions which concern topics on nonlinear analysis and its applications to a variety of problems in science engineering and industry Part III consists of contributions dealing with some problems in applied analysis

Neural Information Processing with Dynamical Synapses Si Wu, Michael K Y Wong, Misha Tsodyks, 2015-01-08

**Recent Research On Domination Related Parameters** Dr. D. D. Pandya, 2021-09-05 In this thesis we have discussed variants of domination like

vertex covering Independent domination K domination K dependent set K dependent K domination Total domination Extended total domination K tuple domination Total K domination Restrained domination and Total restrained domination We have characterized edges whose removal affects or does not affect these variants We have also discussed changing and unchanging of these variants in terms of edge addition between two non adjacent vertices From history we can see that much work has been done for critical graphs but existing work is related to all edges of graph But for application point of view sometimes we require to delete or add any particular edge So our work is related to any particular edge but it is applicable for all graphs When existing work for critical graphs is applicable for any edge but in some particular graph In this way our results carry more important when any particular edge is to be focused We have also discussed bondage number for some variants Our results are related to relation between vertices and edges whose removal affects all these variants Many research papers have been published for criticalness of graph with respect to vertex removal So our results may be link between vertices and edge removal It will insist many research scholars to do work in this direction We believe our study will become instrumental in making the relation between edge removal and vertex removal more transparent and effectively We hope our thesis provide raw material for other research scholars of engineering field also **Let's Put Data to Use:**

**Digital Scholarship for the Next Generation** P. Polydoratos, M. Dobrev, 2014-06-05 The ways in which research data is used and handled continue to capture public attention and are the focus of increasing interest Electronic publishing is intrinsic to digital data management and relevant to the fields of data mining digital publishing and social networks with their implications for scholarly communication information services e learning e business and the cultural heritage sector \_x000D\_ This book presents the proceedings of the 18th International Conference on Electronic Publishing ELPUB held in Thessaloniki Greece in June 2014 The conference brings together researchers and practitioners to discuss the many aspects of electronic publishing and the theme this year is Let's put data to use digital scholarship for the next generation As well as examining the role of cultural heritage and service organisations in the creation accessibility duration and long term preservation of data it provides a discussion forum for the appraisal citation and licensing of research data and the new developments in reviewing publishing and editorial technology \_x000D\_ The book is divided into sections covering the following topics open access and open data knowing the users better researchers and their needs specialized content for researchers publishing and access and practical aspects of electronic publishing \_x000D\_ Providing an overview of all that is current in the electronic publishing world this book will be of interest to practitioners researchers and students in information science as well as users of electronic publishing **Fundamental Controls on Fluid Flow in Carbonates**

S.M. Agar, S. Geiger, 2015-02-02 This volume highlights key challenges for fluid flow prediction in carbonate reservoirs the approaches currently employed to address these challenges and developments in fundamental science and technology The papers span methods and case studies that highlight workflows and emerging technologies in the fields of geology

geophysics petrophysics reservoir modelling and computer science Topics include detailed pore scale studies that explore fundamental processes and applications of imaging and flow modelling at the pore scale case studies of diagenetic processes with complementary perspectives from reactive transport modelling novel methods for rock typing petrophysical studies that investigate the impact of diagenesis and fault rock properties on acoustic signatures mechanical modelling and seismic imaging of faults in carbonate rocks modelling geological influences on seismic anisotropy novel approaches to geological modelling methods to represent key geological details in reservoir simulations and advances in computer visualization analytics and interactions for geoscience and engineering

*Research Mobilities in Primary Literacy Education* Cathy Burnett, Gill Adams, Julia Gillen, Terrie Lynn Thompson, Anna Cermakova, David Ben Shannon, Parinita Shetty, 2024-11-15 This book delves into the intriguing question of why certain types of literacy research gain more traction than others in educational settings It draws upon findings from *Research Mobilities in Primary Literacy Education* an innovative and interdisciplinary study conducted in England and supported by the Economic and Social Research Council ES W000571 1 The study investigated the types of literacy research that reach teachers the ways in which human and non human actors mobilise research and the transformation of research as it circulates The book argues that for teachers to foster genuinely inclusive literacy classrooms they need to be equipped to draw on understandings associated with a variety of theoretical perspectives and research traditions It further explores the dynamics of research dissemination and the factors that influence the uptake and application of research findings in educational contexts This work is an original and groundbreaking contribution to debates about the scope and focus of literacy education the role of evidence based teaching and approaches to professional learning This book is of vital interest to scholars researchers and students with interests in Literacy Education Professional Development and the Ethics of Research It challenges conventional wisdom provokes thoughtful discussion and inspires readers to rethink the role and value of research in shaping literacy education that is inclusive effective and meaningful

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