

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)

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**Moonis Ali, Tibor Bosse, Koen V.
Hindriks, Mark Hoogendoorn, Catholijn
M. Jonker, Jan Treur**

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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

Stress Field Control of Eruption Dynamics Roberto Sulpizio, Antonio Costa, Geoffrey Wadge, 2017-10-10 Increasing evidence supports the claim that stress changes play a fundamental role in triggering volcanic eruptions Stress changes may vary in origin to include earthquakes erosion and landslide processes deglaciation or tidal effects The local stress can also change as response of magma influx from deeper reservoirs and an increase of the magma gas pressure The stress transfer may be of great importance in reawakening a dormant system As an example significant statistical correlation of large earthquakes and eruptions in time and space was suggested in many works The interaction may be two fold where magma intrusions may change the stress at active faults and trigger earthquakes while tectonic earthquakes may affect the magmatic system and change the eruption activity The change in local tectonic stress has been claimed as trigger of large ignimbrite eruptions or for controlling the eruptive style of explosive eruptions Sometimes volcano systems that are nested or closely located may become active in chorus neighbouring volcanoes may interact in the sense that one volcano triggers its neighbouring volcano However although there is ample evidence of concurrence the processes of interacting volcanoes and near to far field tectonic stress are not well understood Some studies suggest that volcanic eruptions are triggered if compressive stress acts at the magma system and squeezes out magma Other studies suggest that extensional stress fields facilitate magma rise and thus encourage eruptions or that fluctuating compression and extension during the passing of seismic waves trigger eruptions This research topic tries to address some of the important open questions in interaction between stress field and volcanic eruption though both review papers and new contributions

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which all other outdoor industry awards are measured **The Politics of Bad Options** Stefanie Walter,Ari Ray,Nils Redeker,2020-11-12 This is an open access title available under the terms of a CC BY NC ND 4.0 International licence It is free to read at Oxford Academic and offered as a free PDF download from OUP and selected open access locations Why was the Eurozone crisis so difficult to resolve Why was it resolved in a manner in which some countries bore a much larger share of the pain than other countries Why did no country leave the Eurozone rather than implement unprecedented austerity Who supported and opposed the different policy options in the crisis domestically and how did the distributive struggles among these groups shape crisis politics Building on macro level statistical data original survey data from interest groups and qualitative comparative case studies this book argues and shows that the answers to these questions revolve around distributive struggles about how the costs of the Eurozone crisis should be divided among countries and within countries among different socioeconomic groups Together with divergent but strongly held ideas about the right way to conduct economic policy and asymmetries in the distribution of power among actors severe distributive concerns of important actors lie at the root of the difficulties of resolving the Eurozone crisis as well as the difficulties to substantially reform EMU The book provides new insights into the politics of the Eurozone crisis by emphasizing three perspectives that have received scant attention in existing research a comparative perspective on the Eurozone crisis by systematically comparing it to previous financial crises an analysis of the whole range of policy options including the ones not chosen and a unified framework that examines crisis politics not just in deficit debtor but also in surplus creditor countries *Crisis, Austerity, and Everyday Life* Gargi Bhattacharyya,2015-10-29 Will austerity never end This timely and insightful book argues that austerity seeks to set the terms of political and economic life for the foreseeable future extending techniques of exclusion to ever greater sections of the population **The Autocar** ,1966

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