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

1,2	1400	1100	260	840	900	550	1230	100	770
t	3	10	20	9	10	13	5	24	16

[You may assume that 
$$\sum h = 7150$$
,  $\sum t = 110$ ,  $\sum h^2 = 7171500$ ,  $\sum t^2 = 1716$ ,  $\sum th = 64980$  and  $S_n = 371.56$ ]

- (a) Calculate S<sub>sh</sub> and S<sub>hh</sub>. Give your answers to 3 significant figures.
- (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.
- (e) Interpret the value of b.
- (f) Estimate the difference in air temperature between a height of 500m and a height of 1000m.

(4)

(1)

(3)

# June 2013 S1 Paper

**Peipei Pang** 

#### June 2013 S1 Paper:

Automata Theory, Languages of Machines and Computability Shivam Saxena, 2018-02-05 The book is all about the automata formal language theory and computability Automata theory plays important roles in compilers text processing programming languages hardware designs and artificial intelligence and is the core base of computer science studies The intent is to make automata theory interesting and challenging and break the myth of being a tough topic For that matter topics are covered in an easy to understand manner with the help of elaborative and well descripted examples For topics which are little complex and fuzzy to understand strategy adopted is to connect the topic with the everyday problems we encounter in order to develop a connective understanding of the topic and get a clear view of the topic Exercise questions are provided with the answers to understand the solution easily The prospective audience for the book are computer science engineering students Computer science scholars and people preparing for competitive exams like GATE UGC NET etc

Climate vulnerability assessment methodology Lotten Wiréhn, 2017-11-27 Food security and climate change mitigation are crucial missions for the agricultural sector and for global work on sustainable development Concurrently agricultural production is directly dependent on climatic conditions making climate change adaptation strategies essential for the agricultural sector There is consequently a need for researchers planners and practitioners to better understand how why and to what extent agriculture is vulnerable to climate change Such analyses involve challenges in relation to the complex social ecological character of the agricultural system and to the multiple conceptualizations and approaches used in analysing vulnerability. The aim of this thesis is to identify how vulnerability assessments can be used to represent climate related vulnerability in Nordic agriculture in order to advance the methodological development of indicator based and geographic visualization methods The following research questions are addressed i How can agricultural vulnerability to climate change and variability in the Nordic countries be characterized ii How do selections definitions and emphases of indicators influence how vulnerability is assessed iii How do estimates of vulnerability vary depending on the methods used in assessments iv How can geographic visualization be applied in integrated vulnerability assessments This thesis analyses and applies various vulnerability assessment approaches in the context of Nordic agriculture This thesis demonstrates that various methods for composing vulnerability indices result in significantly different outcomes despite using the same set of indicators A conceptual framework for geographic visualization approaches to vulnerability assessments was developed for the purpose of creating transparent and interactive assessments regarding the indicating variables methods and assumptions applied i e opening up the black box of composite indices This framework served as the foundation for developing the AgroExplore geographic visualization tool The tool enables the user to interactively select categorize and weight indicators as well as to explore the data and the spatial patterns of the indicators and indices AgroExplore was used in focus group settings with experts in the Swedish agricultural sector The visualization supported dialogue results confirm the difficulty of

selecting and constructing indicators including different perceptions of what indicators actually indicate the assumption of linear relationships between the indicators and vulnerability and consequently that the direction of the relationship is predefined for each indicator This thesis further points at the inherent complexity of agricultural challenges and opportunities in the context of climate change as such It is specifically emphasized that agricultural adaptation policies and measures involve trade offs between various environmental and socio economic objectives and that their implementation could furthermore entail unintended consequences i e potential maladaptive outcomes Nevertheless it proved difficult to validate indicators due to e q matters of scale and data availability While heavy precipitation and other extreme weather events are perceived as the most relevant drivers of climate vulnerability by the agricultural experts participating in this study statistical analyses of historical data identified few significant relationships between crop yield losses and heavy precipitation In conclusion this thesis contributes to the method development of composite indices and indicator based vulnerability assessment A key conclusion is that assessments are method dependent and that indicator selection is related to aspects such as the system's spatial scale and location as well as to indicator thresholds and defined relationships with vulnerability recognizing the contextual dependency of agricultural vulnerability Consequently given the practicality of indicator based methods I stress with this thesis that future vulnerability studies must take into account and be transparent about the principles and limitations of indicator based assessment methods in order to ensure their usefulness validity and relevance for guiding adaptation strategies F r jordbrukssektorn och global h llbar utveckling i stort r mats kerhet och mitigering av klimatf r ndringar viktiga angel genheter Samtidigt r jordbruksproduktionen ofta direkt beroende av klimatf rh llanden vilket grklimatanpassningsstrategier mycket centrala frsektorn Forskare planerare och akt rer beh ver frst hur varf r och i vilken omfattning jordbruket r s rbart inf r klimatf r ndringar S dana analyser inbegriper ven de utmaningar som skapas genom jordbrukets komplexa socio ekologiska karakt r och de m nga utg ngspunkter och tillv gag ngss tt som anv nds f r att bed ma s rbarhet Syftet med denna avhandling r att identifiera hur s rbarhetsbed mningar kan representera klimatrelaterad s rbarhet i nordiskt jordbruk och i och med detta har avhandlingen som avsikt att utveckla metodologin f r indikatorbaserade och geografiska visualiseringsmetoder F ljande forskningsfr gor avhandlas i Hur kan det nordiska jordbrukets s rbarhet inf r klimatvariation och f r ndringar karakt riseras ii Hur p verkar urval definitioner och betoningar av indikatorer bed mningar av s rbarhet iii Hur varierar uppskattningar med bed mningsmetod iv Hur kan geografisk visualisering anv ndas i integrerade s barhetsbed mningar F r att svara p dessa fr gor analyseras och till mpas olika tillv gag ngss tt att bed ma s rbarhet inom nordiskt jordbruk Avhandlingen visar att olika metoder f r s rbarhetskompositindex resulterar i signifikanta skillnader mellan index trots att samma indikatorer och data anv nds Ett konceptuellt ramverk frs rberhetsbed mningar d r geografisk visualisering anv nds har utvecklats f r att m jligg ra transparens avseende till exempel vilka variabler metoder och antaganden som anv nds i kompositindex Detta ramverk har f ljaktligen legat till grund f r att

utveckla ett geografiskt visualiseringsverktyg AgroExplore Verktyget m jligg r interaktivitet d r anv ndaren kan v lja kategorisera och vikta indikatorer och dessutom utforska data och spatiala m nster av indikatorer och kompositindex AgroExplore any ndes i denna avhandling f r att st dja fokusgruppdialoger med experter inom den svenska jordbrukssektorn Resultaten fr n dessa workshops bekr ftar sv righeten med att v lja och skapa indikatorer Dessa sv righeter innefattar olika uppfattningar om vad indikatorer representerar antagandet om linj ra samband mellan indikatorerna och s rbarhet och f ljaktligen att sambandens riktning r f rdefinierade f r respektive indikator Ut ver de konceptuella och metodologiska utmaningarna med s rbarhetsbed mningar visar avhandlingen p komplexa sv righeter och m jligheter f r jordbruket vid klimatf r ndringar S rskilt framh lls att klimatanpassningspolitik och tg rder inom jordbruket medf r konflikter och avv gningar mellan olika mili och socio ekonomiska m l Implementering av s dana anpassnings tg rder kan vidare inneb ra o nskade konsekvenser s kallad missanpassning Trots kad kunskap g llande nordiska jordbrukets s rbarhet inf r klimatf r ndringar har det visats sig vara sv rt att statistiskt validera indikatorer p grund av exempelvis skalproblematik och datatillg nglighet Samtidigt som experterna ans g att kraftig nederb rd och andra extrema v derh ndelser r de mest relevanta drivkrafterna till klimats rbarhet visar den statistiska analysen av historiska data p f signifikanta samband mellan f rlorad sk rdeavkastning och kraftig nederb rd Denna avhandling bidrar till metodutveckling av kompositindex och indikatorbaserade metoder f r s rbarhetsbed mningar En viktig slutsats r att bed mningar r metodberoende och att valet av indikatorer r relaterat till aspekter s som systemets utbredning och den spatiala skalan av bed mningen ven indikatorernas tr skelv rden och hur deras relation till s rbarhet r definierade anses vara viktiga faktorer som p verkar hur indikatorer representerar s rbarhet vilket visar p s rbarhetsbed mningars kontextuella beroende I och med de r dande bristerna hos indikatorbaserade metoder som bland annat har identifierats i denna avhandling vill jag framh lla vikten av att s rbarhetsbed mningar b r vara transparanta g llande den till mpade metodens principer antaganden och begr sningar Detta f r att s kerst lla anv ndbarhet giltighet och relevans om metoden och bed mningen ska ligga till grund f r anpassningsstrategier hos s v l politiker planerare och lantbrukare 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 Concepts and Values in Biodiversity Dirk Lanzerath, Minou Friele, 2014-01-23 Biodiversity may refer to the diversity of genes species or ecosystems in general These varying concepts of biodiversity occasionally lead to conflicts among researchers and policy makers as each of them require a customized type of protection strategy This book addresses the questions surrounding the merits of conserving an existing

situation evolutionary development or the intentional substitution of one genome species or ecosystem for another Any practical steps towards the protection of biodiversity demand a definition of that which is to be protected and in turn the motivations for protecting biodiversity Is biodiversity a necessary model which is also useful or does it carry intrinsic value Debates like this are particularly complex when interested parties address it from different conceptual and moral perspectives Comprised of three parts each complemented by a short introductory paragraph this collection presents a variety of approaches to this challenge The chapters cover the perspectives of environmental scientists with expertise in evolutionary environmental biology systematic zoology and botany as well as those of researchers with expertise in philosophy ethics politics law and economics This combination facilitates a truly interdisciplinary debate by highlighting hitherto unacknowledged implications that inform current academic and political debates on biodiversity and its protection The book should be of interest to students and researchers of environment studies biodiversity environmental philosophy ethics and management Mobile Networks and Management Ramón Agüero, Thomas Zinner, Rossitza Goleva, Andreas Timm-Giel, Phuoc Tran-Gia, 2015-02-27 This book constitutes the post proceedings of the 6th International ICST Conference on Mobile Networks and Management MONAMI 2014 held in W rzburg Germany in September 2014 The 22 revised full papers presented were carefully reviewed and selected from 30 submissions In addition MONAMI 2014 hosted a workshop on enhanced living environments which also featured 10 papers The volume is organized thematically in six parts covering LTE networks virtualization and software defined networking self organizing networks energy awareness in wireless networks wireless networks algorithms and techniques and applications and context awareness The workshop on enhanced living environments is organized in thematic sessions on ambient assisted living architectures human interaction technologies devises and mobile cloud Marketing Theory Michael J Baker, Michael Saren, 2016-05-16 Marketing Theory introduces and explains the role of theory in marketing by uncovering its histories disciplinary underpinnings subfields discourses and debates From strategy and ethics to digital marketing and consumer behaviour leading marketing experts shine a light on what can be a challenging perspective of marketing In this new Third Edition there are up to date examples from global companies such as Pepsi Amazon and H entirely new chapters on Digital and Social Media Marketing and Service Dominant Logic SD L and contributions from Global Specialists including Bob Lusch Patrick Murphy and Susan Hart Ideal for Upper level undergraduate and postgraduate marketing students studying marketing theory critical marketing and the history of marketing modules 2024-25 TGT/PGT Economics Solved Papers YCT Expert Team, 2024 25 TGT PGT Asia in International Relations Pinar Bilgin, L.H.M. Ling, 2017-02-01 Asia in International **Economics Solved Papers** Relations decolonizes conventional understandings and representations of Asia in International Relations IR This book opens by including all those geographical and cultural linkages that constitute Asia today but are generally ignored by mainstream IR Covering the Indian subcontinent Turkey the Mediterranean Iran the Arab world Ethiopia and Central Northeast

Southeast Asia the volume draws on rich literatures to develop our understanding of power relations in the world's largest continent Contributors de colonize de imperialize and de Cold War the region to articulate an alternative narrative about Asia world politics and IR This approach reframes old problems in new ways with the possibility of transforming them rather than recycling the same old approaches with the same old intractable outcomes The Oxford Handbook of Refugee and Forced Migration Studies Elena Fiddian-Qasmiyeh, Gil Loescher, Katy Long, Nando Sigona, 2014 Refugee and Forced Migration Studies has grown from being a concern of a relatively small number of scholars and policy researchers in the 1980s to a global field of interest with thousands of students worldwide studying displacement either from traditional disciplinary perspectives or as a core component of newer programmes across the Humanities and Social and Political Sciences Today the field encompasses both rigorous academic research which may or may not ultimately inform policy and practice as well as action research focused on advocating in favour of refugees needs and rights This authoritative Handbook critically evaluates the birth and development of Refugee and Forced Migration Studies and analyses the key contemporary and future challenges faced by academics and practitioners working with and for forcibly displaced populations around the world The 52 state of the art chapters written by leading academics practitioners and policymakers working in universities research centres think tanks NGOs and international organizations provide a comprehensive and cutting edge overview of the key intellectual political social and institutional challenges arising from mass displacement in the world today The chapters vividly illustrate the vibrant and engaging debates that characterize this rapidly expanding field of research and The European Social Model in Crisis Daniel Vaughan-Whitehead, 2015-04-30 This is the first book to provide a practice comprehensive and systematic assessment of the impact of the crisis and austerity policies on all elements of the European Social Model This book assesses the situation in each individual EU member state on the basi

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