

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)

June 2013 S1 Paper

S.M. Agar, S. Geiger



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 described 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 g 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 mitiger ing av klimatf r ndr ingar viktiga angel genheter Samtidigt r jordbruksproduktionen ofta direkt beroende av klimatf r h llanden vilket g r klimatanpassningsstrategier mycket centrala f r sektorn Forskare planerar och akt rer beh ver f rst hur varf r och i vilken omfattning jordbruket r s rbar t inf r klimatf r ndr ingar 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 ndr ingar 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 rbarhetsbed 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 f r s rbarhetsbed 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. Verktöget möjliggör interaktivitet där användaren kan välja kategorisera och vikta indikatorer och dessutom utforska data och spatiala mönster av indikatorer och kompositindex. AgroExplore användes i denna avhandling för att stödja fokusgruppdialoger med experter inom den svenska jordbrukssektorn. Resultaten från dessa workshops bekräftar svårigheten med att välja och skapa indikatorer. Dessa svårigheter innefattar olika uppfattningar om vad indikatorer representerar, antagandet om linjära samband mellan indikatorerna och sårbarhet och följaktligen att sambandens riktning fördefinierade för respektive indikator. Utöver de konceptuella och metodologiska utmaningarna med sårbarhetsbedömningar visar avhandlingen på komplexa svårigheter och möjligheter för jordbruket vid klimatförändringar. Särskilt framhålls att klimatanpassningspolitik och tillgången inom jordbruket medför konflikter och avvägningar mellan olika miljö- och socioekonomiska mål. Implementering av sådana anpassningsåtgärder kan vidare innebära oönskade konsekvenser så kallad missanpassning. Trots kunskap gällande nordiska jordbrukets sårbarhet inför klimatförändringar har det visats sig vara svårt att statistiskt validera indikatorer på grund av exempelvis skalproblematik och datatillgänglighet. Samtidigt som experterna ansåg att kraftig nederbörd och andra extrema väderhändelser är de mest relevanta drivkrafterna till klimatsårbarhet visar den statistiska analysen av historiska data på få signifikanta samband mellan förklarad skördeavkastning och kraftig nederbörd. Denna avhandling bidrar till metodutveckling av kompositindex och indikatorbaserade metoder för sårbarhetsbedömningar. En viktig slutsats är att bedömningar är metodberoende och att valet av indikatorer är relaterat till aspekter såsom systemets utbredning och den spatiala skalan av bedömningen. En indikatorernas tillgänglighet och hur deras relation till sårbarhet är definierade anses vara viktiga faktorer som påverkar hur indikatorer representerar sårbarhet, vilket visar på sårbarhetsbedömnings kontextuella beroende. I och med de rådande bristerna hos indikatorbaserade metoder som bland annat har identifierats i denna avhandling vill jag framhålla vikten av att sårbarhetsbedömningar bör vara transparenta gällande den tillämpade metodens principer, antaganden och begränsningar. Detta för att säkerställa användbarhet, giltighet och relevans om metoden och bedömningen ska ligga till grund för anpassningsstrategier hos såväl 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.

[22 Topic-wise CTET Paper 2 Mathematics & Science Previous Year Solved Papers \(2024 - 2011\) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language](#) Disha Experts, 2024-10-22. The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to

2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam

Global Liquidity - Issues for Surveillance International Monetary Fund, 2014-12-03 The paper starts by presenting evidence of commonality in global financial conditions This commonality is then related to specific drivers of global financial conditions through a range of transmission channels including cross border banking and portfolio flows Empirical analysis shows a range of price and quantity factors including measures of risk bank leverage and interest rates in financial centers to drive in part these flows Country specific policies including exchange rate and prudential frameworks are shown to affect the transmission of global conditions Much remains unknown though including how evolving structures of global funding changing institutions and ongoing financial innovations affect the mechanics of liquidity creation the channels of liquidity transmission and potential risks going forward

2024-25 TGT/PGT Economics Solved Papers YCT Expert Team , 2024 25 TGT PGT Economics Solved Papers **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 Würzburg 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 devices and mobile cloud

Metaheuristics Algorithm and Optimization of Engineering and Complex Systems R., Thanigaivelan, M., Suchithra, S., Kaliappan, T., Mothilal, 2024-07-23 In the field of engineering optimization and decision making have become pivotal concerns The ever increasing demand for data processing has given rise to issues such as extended processing times and escalated memory utilization posing formidable obstacles across various engineering domains Problems persist requiring not only solutions but advancements beyond existing best practices Creating and implementing novel heuristic algorithms is a time intensive process yet the imperative to do so remains strong driven by the potential to significantly lower computational costs even with marginal improvements This book titled Metaheuristics Algorithm and Optimization of Engineering and Complex Systems is a beacon of innovation in this context It examines the critical need for inventive algorithmic solutions exploring hyperheuristic approaches that offer solutions such as automating search spaces through integrated heuristics Designed to cater to a broad audience this book is

a valuable resource for both novice and experienced dynamic optimization practitioners By addressing the spectrum of theory and practice as well as discrete versus continuous dynamic optimization it becomes an indispensable reference in a captivating and emerging field With a deliberate focus on inclusivity the book is poised to benefit anyone with an interest in staying abreast of the latest developments in dynamic optimization *Asia in International Relations* Pinar Bilgin,L.H.M. Ling,2017-02-01 *Asia in International 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

Future Spacecraft Propulsion Systems and Integration Paul A. Czysz,Claudio Bruno,Bernd Chudoba,2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike

Handbook of Fixed-Income Securities Pietro Veronesi,2016-04-04 A comprehensive guide to the current theories and methodologies intrinsic to fixed income securities Written by well known experts from a cross section of academia and finance *Handbook of Fixed Income Securities* features a compilation of the most up to date fixed income securities techniques and methods The book presents crucial topics of fixed income in an accessible and logical format Emphasizing empirical research and real life applications the book explores a wide range of topics from the risk and return of fixed income investments to the impact of monetary policy on interest rates to the post crisis new regulatory landscape Well organized to cover critical topics in fixed income *Handbook of Fixed Income Securities* is divided into eight main sections that feature An introduction to fixed income markets such as Treasury bonds inflation protected securities money markets mortgage backed securities and the basic analytics that characterize them Monetary policy and fixed income markets which highlight the recent empirical evidence on the central banks influence on interest

rates including the recent quantitative easing experiments Interest rate risk measurement and management with a special focus on the most recent techniques and methodologies for asset liability management under regulatory constraints The predictability of bond returns with a critical discussion of the empirical evidence on time varying bond risk premia both in the United States and abroad and their sources such as liquidity and volatility Advanced topics with a focus on the most recent research on term structure models and econometrics the dynamics of bond illiquidity and the puzzling dynamics of stocks and bonds Derivatives markets including a detailed discussion of the new regulatory landscape after the financial crisis and an introduction to no arbitrage derivatives pricing Further topics on derivatives pricing that cover modern valuation techniques such as Monte Carlo simulations volatility surfaces and no arbitrage pricing with regulatory constraints Corporate and sovereign bonds with a detailed discussion of the tools required to analyze default risk the relevant empirical evidence and a special focus on the recent sovereign crises A complete reference for practitioners in the fields of finance business applied statistics econometrics and engineering Handbook of Fixed Income Securities is also a useful supplementary textbook for graduate and MBA level courses on fixed income securities risk management volatility bonds derivatives and financial markets Pietro Veronesi PhD is Roman Family Professor of Finance at the University of Chicago Booth School of Business where he teaches Masters and PhD level courses in fixed income risk management and asset pricing Published in leading academic journals and honored by numerous awards his research focuses on stock and bond valuation return predictability bubbles and crashes and the relation between asset prices and government policies

CTET Mathematics & Science 9 Year-wise Solved Papers 1 & 2 Disha Experts,2019-10-21

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

Currency Cooperation in East Asia Frank Rövekamp,Hanns Günther Hilpert,2014-07-08 This book explores the opportunities and limits of currency cooperation in East Asia Currency issues play an important role in the region The Asian crisis of the late 90s was rooted in deficient currency arrangements The Chinese RMB is not freely convertible yet but policymakers in China nevertheless aim for a more

international role of the Chinese currency The recent change of direction in Japanese monetary policy caused a drastic depreciation of the Yen and led to warnings against a possible currency war thus demonstrating that currency issues can also easily lead to political frictions Most trade in and with the East Asian zone on the other hand is still conducted in US Against this background different modes of currency cooperation serve the goal of smoothing exchange rate fluctuations and capital flows They are an important element to promote financial stability and to reduce the transaction cost for foreign trade or investment The contributions of this book analyze the environment and design of currency cooperation in East Asia and their effects from a macro and microeconomic viewpoint *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 **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 practice **Knowledge-Intensive Entrepreneurship in Low-Tech Industries** Hartmut

Hirsch-Kreinsen, Isabel Schwing, 2014-05-30 This book will appeal to social scientists economists and students of innovation and entrepreneurship studies Policy makers and company representatives will also find much of interest in this book with its surprising insights into a field that has b *Smugglers and States* Max Gallien, 2024-02-27 Winner 2025 Theodore J Lowi First Book Award International Political Science Association American Political Science Association Smuggling is typically thought of as furtive and hidden taking place under the radar and beyond the reach of the state But in many cases governments tacitly permit illicit cross border commerce or even devise informal arrangements to regulate it Drawing on extensive fieldwork in the borderlands of Tunisia and Morocco Max Gallien explains why states have long tolerated illegal trade across their borders and develops new ways to understand the political economy of smuggling This book examines the rules and agreements that govern smuggling in North Africa tracing the involvement of states in these practices and their consequences for borderland communities Gallien demonstrates that contrary to common assumptions about the effects of informal economies smuggling can promote both state and social stability States not only turn a blind eye to smuggling they rely on it to secure political acquiescence and maintain order because it provides income for otherwise neglected border communities More recently however the securitization of borders wars political change and the pandemic have put these arrangements under pressure Gallien explores the renegotiation of the role of smuggling showing how stability turns into vulnerability and why some groups have been able to thrive while others have been pushed further to the margins With both rich empirical detail and novel theoretical contributions *Smugglers and States* offers important insights into security and stability in North Africa and the prospects for economic inclusion in a context where many livelihoods exist outside of the law

New Challenges to Food Security Ian Christoplos, Adam Pain, 2014-11-13 Food security is high on the political agenda Fears about societal insecurity due to food price increases and hunger grave scenarios regarding the effects of climate change and general uncertainty about the impacts of investments in biofuels and so call land grabbing on food prices and availability have meant that food security is now recognised as being a multifaceted challenge This book is unique in that it will bring together analyses of these different factors that impact on food security This volume will describe a range of different perspectives on food security with an emphasis on the various meanings that are applied to food security crisis The challenges to be reviewed include market volatility climate change and state fragility Analyses of responses to food security crises and risk will cover rural and urban contexts arenas of national policy formation and global food regimes and investment in land and productive technologies This book is unique in two respects First it takes a step back from the normative literature focused on specific factors of for example climate change agricultural production or market volatility to

look instead at the dynamic interplay between these new challenges It helps readers to understand that food security is not one discourse but is rather related to how these different factors generate multiple risks and opportunities Second through the case studies the book particularly emphasises how these factors come together at local levels as farmers entrepreneurs consumers local government officials and others are making key decisions about what will be done to address food security and whose food security will be given priority The book will explore how food production and consumption is embedded in powerful political and market forces and how these influence local actions

Nursing Practice Ian Peate, Karen Wild, Muralitharan Nair, 2014-10-20 Nursing Practice is the essential textbook to support you throughout your entire nursing degree from your first year onwards It explores all the clinical and professional issues that you need to know in one complete volume Written in the context of the latest Nursing and Midwifery Council Standards for Pre Registration Nursing Education and the Essential Skills Clusters this book covers all fields of nursing Adult Child Mental Health Learning Disabilities and also Maternity care in both acute and community settings With full colour illustrations and plenty of activities and user friendly features throughout this evidence based text encompasses essential nursing theory and practice providing students with information to support their success Learning features in the book include Hear it from the experts tips and advice from real life nurses patients and their carers and student nurses Red Flags alerting the student to potential dangers Primary Care Considerations informs students about care issues in the community setting Fields boxes giving further insight into other fields of nursing making the book relevant to all fields of nursing practice Medicines Management boxes provide key information about medicines Self assessment and activities throughout A companion website to this title is available at www.wileynursingpractice.com Here you ll find a range of resources for both the student and the lecturer including Over 350 interactive multiple choice questions Flashcards Glossary Links to references and further reading Illustrations from the book Worksheets

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