

NCERT Solutions for Class 12 Maths Chapter 4 Determinants

Question 1:

Evaluate the determinant $\begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$

Solution:

Let $|A| = \begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$

Hence,

$$\begin{aligned} |A| &= \begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix} \\ &= 2(-1) - 4(-5) \\ &= -2 + 20 \\ &= 18 \end{aligned}$$

Question 2:

Evaluate the determinants:

(i) $\begin{vmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{vmatrix}$

(ii) $\begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix}$

Solution:

(i)

$$\begin{aligned} \begin{vmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{vmatrix} &= (\cos \theta)(\cos \theta) - (-\sin \theta)(\sin \theta) \\ &= \cos^2 \theta + \sin^2 \theta \\ &= 1 \end{aligned}$$

(ii)

$$\begin{aligned} \begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix} &= (x^2 - x + 1)(x + 1) - (x - 1)(x + 1) \\ &= x^2 - x^2 + x + x^2 - x + 1 - (x^2 - 1) \\ &= x^2 + 1 - x^2 + 1 \\ &= x^2 - x^2 + 2 \end{aligned}$$

Chapter 4 Solutions

Ying-Ying Zheng



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Introduction to Genetic Analysis Solutions MegaManual William Fixen, Diane K. Lavett, 2008 The solutions mega manual contains complete worked out solutions to all the problems in the textbook Used in conjunction with the main text this manual is one of the best ways to develop a fuller appreciation of genetic principles

Final Cut Express Solutions Jason Cranford Teague, David Teague, 2006-02-20 Apple's Final Cut Express offers all the capabilities you need to produce first rate digital videos Inside this full color guide acclaimed authors Jason Cranford Teague and David Teague show you how to put these features to work and edit your digital videos like a pro Final Cut Express Solutions focuses on the tasks that film editors face daily Designed for budding filmmakers and DV veterans it's filled with practical lessons and insights on how to craft polished productions while balancing time and money constraints Get tips on everything from how to shoot your video footage for optimal results to outputting your finished video to DVD and the Web You can even follow along with the authors clips provided on the DVD or use your own footage Centered upon a sample video documentary project this book thoroughly leads you through each step of the way including Organizing your project using the Timeline Editing with multiple tracks Trimming clips ripple roll slip and slide edits Creating transitions and overlays Adding effects applying filters and working with text Jazzing it up with audio transitions Delivering your finished product to the Web videotape or DVD Note CD ROM DVD and other supplementary materials are not included as part of eBook file

ON SOLUTIONS TO N-PERSON GAMES IN PARTITION FUNCTION FORM.. WILLIAM FRANKLIN LUCAS, 1963

Water and Aqueous Solutions at Subzero Temperatures Felix Franks, 2013-11-11 This Volume the last of the series is devoted to water in its metastable forms especially at sub zero temperatures The past few years have witnessed an increasing interest in supercooled water and amorphous ice If the properties of liquid water in the normal temperature range are already eccentric then they become exceedingly so below the normal freezing point in the metastable temperature range Water can be supercooled to 39 C without too much effort and most of its physical properties show a remarkable temperature dependence under these conditions Although adequate explanations are still lacking the time has come to review available knowledge The study of amorphous ice that is the solid formed when water vapor is condensed on a very cold surface is of longer standing It has achieved renewed interest because it may serve as a model for the liquid state There is currently a debate whether or not a close structural relationship exists between amorphous ice and supercooled water The nucleation and growth of ice in supercooled water and aqueous solutions is also still one of those grey areas of research although these topics have received considerable attention from chemists and physicists over the past two decades Even now the relationships between degree of supercooling nucleation kinetics crystal growth kinetics cooling rate and solute concentration are somewhat obscure Nevertheless at the empirical level much progress has been made because these topics are of considerable importance to biologists technologists atmospheric physicists and glaciologists

Intermediate Accounting, Student Practice and

Solutions Manual Donald E. Kieso, 2019-08-20 The Student Practice and Solutions Manual to accompany Kieso Intermediate Accounting 17e contains a chapter review and a selection of brief exercises exercises and problems with accompanying solutions from Kieso s Problem Set B which is similar to end of chapter material

DWDM Network Designs and Engineering Solutions Ashwin Gumaste, Tony Antony, 2003 A comprehensive book on DWDM network design and implementation solutions Design Software Included Study various optical communication principles as well as communication methodologies in an optical fiber Design and evaluate optical components in a DWDM network Learn about the effects of noise in signal propagation especially from OSNR and BER perspectives Design optical amplifier based links Learn how to design optical links based on power budget Design optical links based on OSNR Design a real DWDM network with impairment due to OSNR dispersion and gain tilt Classify and design DWDM networks based on size and performance Understand and design nodal architectures for different classification of DWDM networks Comprehend different protocols for transport of data over the DWDM layer Learn how to test and measure different parameters in DWDM networks and optical systems The demand for Internet bandwidth grows as new applications new technologies and increased reliance on the Internet continue to rise Dense wavelength division multiplexing DWDM is one technology that allows networks to gain significant amounts of bandwidth to handle this growing need DWDM Network Designs and Engineering Solutions shows you how to take advantage of the new technology to satisfy your network s bandwidth needs It begins by providing an understanding of DWDM technology and then goes on to teach the design implementation and maintenance of DWDM in a network You will gain an understanding of how to analyze designs prior to installation to measure the impact that the technology will have on your bandwidth and network efficiency This book bridges the gap between physical layer and network layer technologies and helps create solutions that build higher capacity and more resilient networks Companion CD ROM The companion CD ROM contains a complimentary 30 day demo from VPIphotonics trade for VPItransmissionMaker trade the leading design and simulation tool for photonic components subsystems and DWDM transmission systems VPItransmissionMaker contains 200 standard demos including demos from Chapter 10 that show how to simulate and characterize devices amplifiers and systems

Thermodynamics of Solutions Eli Ruckenstein, Ivan L. Shulgin, 2009-06-17 This book consists of a number of papers regarding the thermodynamics and structure of multicomponent systems that we have published during the last decade Even though they involve different topics and different systems they have something in common which can be considered as the signature of the present book First these papers are concerned with difficult or very nonideal systems i e systems with very strong interactions e g hyd gen bonding between components or systems with large differences in the partial molar v umes of the components e g the aqueous solutions of proteins or systems that are far from normal conditions e g critical or near critical mixtures Second the conventional th modynamic methods are not sufficient for the accurate treatment of these mixtures Last but not least these

systems are of interest for the pharmaceutical biomedical and related industries. In order to meet the thermodynamic challenges involved in these complex mixtures, we employed a variety of traditional methods but also new methods such as the fluctuation theory of Kirkwood and Buff and ab initio quantum mechanical techniques. The Kirkwood-Buff (KB) theory is a rigorous formalism which is free of any of the approximations usually used in the thermodynamic treatment of multicomponent systems. This theory appears to be very fruitful when applied to the above-mentioned difficult systems.

Modern API Design with gRPC: Efficient Solutions to Design Modern APIs with gRPC Using Golang for Scalable Distributed Systems Hitesh Pattanayak, 2024-03-29

Elevate Your Development with Effortless and Efficient API Communication. Key Features: Delve into core concepts of gRPC like Protocol Buffers, service definitions, and communication patterns. Implement gRPC servers and clients in Golang and master Protocol Buffers for defining services and messages. Compare gRPC with REST and SOAP, uncovering its distinct advantages and use cases. Book Description: *Modern API Design with gRPC* is a definitive guide that empowers developers to leverage the full potential of gRPC in constructing efficient and scalable distributed systems. Beginning with an exploration of API evolution and its significance in software development, the book seamlessly transitions into the core concepts of gRPC architecture, protocol buffers, and stubs. Through practical examples and clear instructions, readers embark on a journey to establish their first gRPC server and client, laying a solid groundwork for further exploration. Delving deeper into advanced topics such as communication patterns, error handling, and load balancing strategies specific to gRPC, the book provides invaluable insights into best practices for constructing production-grade gRPC applications, complemented by real-world case studies that illustrate the versatility and scalability of gRPC across diverse project landscapes. This book equips readers with the confidence to design, implement, and deploy robust gRPC applications, catalyzing a transformative shift in their distributed system development approach.

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- Utilizing gRPC in real-world projects to create scalable distributed systems.

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