

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

(ii) $\begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix} = (x^2 - x + 1)(x + 1) - (x - 1)(x + 1)$
 $= x^3 - x^2 + x + x^2 - x + 1 - (x^2 - 1)$
 $= x^3 + 1 - x^2 + 1$
 $= x^3 - x^2 + 2$

Chapter 4 Solutions

Arthur Jaques



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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

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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 **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

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 hydrogen bonding between components or systems with large differences in the partial molar volumes 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 thermodynamic 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

Solutions to Problems in Elementary Cost Accounting Charles F. Schlatter, 1928

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 With a strong emphasis on security readers learn to implement TLS encryption mutual authentication and authorization mechanisms to fortify their applications 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

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(B.A.),1877 Chemical Abstracts ,1926 *Complex Ions in Aqueous Solutions* Arthur Jaques,1914 Solutions of the
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