1. Let $A = \begin{bmatrix} 2 & 4 \\ 3 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 3 \\ -2 & 5 \end{bmatrix}$, $C = \begin{bmatrix} -2 & 5 \\ 3 & 4 \end{bmatrix}$

   Find each of the following:

   (i) $A + B$ (ii) $A - B$ (iii) $3A - C$

   (iv) AB (v) BA

2. Compute the following:

   (i) $\begin{bmatrix} a & b \\ -b & a \end{bmatrix} + \begin{bmatrix} a & b \\ b & a \end{bmatrix}$

   (ii) $\begin{bmatrix} a^2 + b^2 & b^2 + c^2 \\ a^2 + c^2 & a^2 + b^2 \end{bmatrix} + \begin{bmatrix} 2ab & 2bc \\ -2ac & -2ab \end{bmatrix}$

   (iii) $\begin{bmatrix} -1 & 4 & -6 \\ 8 & 5 & 16 \\ 2 & 8 & 5 \end{bmatrix} + \begin{bmatrix} 12 & 7 & 6 \\ 8 & 0 & 5 \\ 3 & 2 & 4 \end{bmatrix}$

   (iv) $\begin{bmatrix} \cos^2 x & \sin^2 x \\ \sin^2 x & \cos^2 x \end{bmatrix} + \begin{bmatrix} \sin^2 x & \cos^2 x \\ \cos^2 x & \sin^2 x \end{bmatrix}$

3. Compute the indicated products.

   (i) $\begin{bmatrix} a & b \\ -b & a \end{bmatrix} \begin{bmatrix} a & -b \\ b & a \end{bmatrix}$ (ii) $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} [2 \quad 3 \quad 4]$ (iii) $\begin{bmatrix} 1 & -2 \\ 2 & 3 \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{bmatrix}$

   (iv) $\begin{bmatrix} 2 & 3 & 4 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix} \begin{bmatrix} 1 & -3 & 5 \\ 0 & 2 & 4 \\ 3 & 0 & 5 \end{bmatrix}$ (v) $\begin{bmatrix} 2 & 1 \\ 3 & 2 \\ -1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 1 \\ -1 & 2 & 1 \end{bmatrix}$

   (vi) $\begin{bmatrix} 3 & -1 & 3 \\ -1 & 0 & 2 \end{bmatrix} \begin{bmatrix} 2 & -3 \\ 1 & 0 \\ 3 & 1 \end{bmatrix}$

Matrices Problems With Answers

BM King

Matrices Problems With Answers:

Problems And Solutions In Introductory And Advanced Matrix Calculus (Second Edition) Yorick Hardy,Willi-hans Steeb,2016-07-14 This book provides an extensive collection of problems with detailed solutions in introductory and advanced matrix calculus Supplementary problems in each chapter will challenge and excite the reader ideal for both graduate and undergraduate mathematics and theoretical physics students The coverage includes systems of linear equations linear differential equations integration and matrices Kronecker product and vec operation as well as functions of matrices Furthermore specialized topics such as spectral theorem nonnormal matrices and mutually unbiased bases are included Many of the problems are related to applications for group theory Lie algebra theory wavelets graph theory and matrix valued differential forms benefitting physics and engineering students and researchers alike It also branches out to problems with tensors and the hyperdeterminant Computer algebra programs in Maxima and SymbolicC have also been provided Microsoft Excel 2010 Data Analysis and Business Modeling Wayne Winston,2011-01-07 Master the business modeling and analysis techniques that help you transform data into bottom line results For more than a decade Wayne Winston has been teaching corporate clients and MBA students the most effective ways to use Excel to solve business problems and make better decisions Now this award winning educator shares the best of his expertise in this hands on scenario focused guide fully updated for Excel 2010 Use Excel to solve real business problems and sharpen your edge Model investment risks and returns Analyze your sales team s effectiveness Create best worst and most likely case scenarios Compare lease vs buy and calculate loan terms See how price advertising and seasonality affect sales Manage inventory with precision Quantify the value of customer loyalty Calculate your break even number and ROI Maximize scheduling efficiency Express home field advantage in real numbers Project company growth predict election results and more Plus introduce yourself to PowerPivot for Excel Your companion web content includes Downloadable eBook Hundreds of scenario based practice problems All the book s sample files plus customizable templates *Numerical Solution of Eigenvalue Problems* Open University. Linear Mathematics Course Team,1972 *Microsoft Excel 2013 Data Analysis and Business Modeling* Wayne Winston,2014-01-15 Master business modeling and analysis techniques with Microsoft Excel 2013 and transform data into bottom line results Written by award winning educator Wayne Winston this hands on scenario focused guide shows you how to use the latest Excel tools to integrate data from multiple tables and how to effectively build a relational data source inside an Excel workbook Solve real business problems with Excel and sharpen your edge Summarize data with PivotTables and Descriptive Statistics Explore new trends in predictive and prescriptive analytics Use Excel Trend Curves multiple regression and exponential smoothing Master advanced Excel functions such as OFFSET and INDIRECT Delve into key financial statistical and time functions Make your charts more effective with the Power View tool Tame complex optimization problems with Excel Solver Run Monte Carlo simulations on stock prices and bidding models Apply important modeling tools

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