

# MATRICES & LPP TEST PAPER

1. Find the inverse of  $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$  (2M)
2. Find  $X$ , if  $AX = B$  where  
 $A = \begin{bmatrix} 1 & 2 & 3 \\ -1 & 1 & 2 \\ 1 & 2 & 4 \end{bmatrix}$  &  $B = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$  (4M)
3. If three numbers are added, their sum is '2'. If 2 times the second number is subtracted from the sum of first and third number we get '8' and if three times the first number is added to the sum of second and third number we get '4'. Find the numbers using matrices. (4M)
4. Solve the following equations by the method of inversion  
 $x - y + z = 4$ ,  $2x + y - 3z = 0$ ,  $x + y + z = 2$ . (4M)
5. If  $A = \begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix}$ ,  $B = \begin{bmatrix} 4 & 1 \\ 3 & 1 \end{bmatrix}$  &  $C = \begin{bmatrix} 24 & 7 \\ 31 & 9 \end{bmatrix}$  then find matrix  $X$  such that  $AXB = C$  (4M)
6. Find the inverse of  $A = \begin{bmatrix} 1 & 0 & 1 \\ 0 & 2 & 3 \\ 1 & 2 & 4 \end{bmatrix}$  by elementary column transformations. (3M)
7. Find the inverse of  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 1 & 5 \\ 2 & 4 & 7 \end{bmatrix}$  by elementary row transformations. (3M)
8. Solve the following L.P.P.  
 Maximize  $z = 6x + 10y$   
 subject to  $3x + 5y \leq 10$ ,  $5x + 3y \leq 15$ ,  $x \geq 0$ ,  $y \geq 0$  (4M)
9. Solve the following L.P.P.  
 Minimize :  $z = 8x + 10y$  subject to  $2x + y \geq 7$ ,  $2x + 3y \geq 15$ ,  
 $y \geq 2$ ,  $x \geq 0$ ,  $y \geq 0$ . (4M)
10. A doctor has prescribed two different units of foods A and B to form a weekly diet for a sick person. The minimum requirements of fats, carbohydrates and proteins are 18, 28, 14 units respectively. One unit of food A has 4 units of fats, 14 units of carbohydrates and 8 units of protein. One unit of food B has 6 units of fat, 12 units of carbohydrates and 8 units of protein. The price of food A is 4.5 per unit and that of food B is 3.5 per unit. Form the L.P.P. so that the sick person's diet meets the requirements at a minimum cost. (2M)
11. A factory produced two types of chemicals A and B. The following table gives the units of ingredients P and Q (per kg) of chemicals A and B as well as minimum requirements of P and Q and also cost per kg. chemicals A and B :
 

CHEMICALS IN UNITS/ Ingredients per kg.	A (x)	B (y)	Minimum requirements in units
P	1	2	80
Q	3	1	75
Cost (in Rs.)	4	6	-

 Find the number of units of chemicals A and B should be produced so as to minimize the cost. (4M)
12. Find the feasible solution of the following inequations graphically.  
 $0 \leq x \leq 3$ ,  $0 \leq y \leq 3$ ,  $x + y \leq 5$ ,  $2x + y \geq 4$  (2M)

# Matrices Linear Programming

**Stephen Barnett**



## **Matrices Linear Programming:**

**Matrices and Linear Programming with Applications** Toshinori Munakata, 1979     An Introduction to Matrices, Vectors, and Linear Programming Hugh G. Campbell, 1977     Matrix With Linear Programming Dittmore, 1993-01-01

Matrices & Linear Programming Robert O. Stanton, 1992     **Matrix Algebra and Linear Programming** Marvin L. Bittinger, J. Conrad Crown, 1989-01-01     **Sets, Matrices, and Linear Programming** Robert L. Childress, 1974 Sets Functions and systems of equations Matrices and matrix algebra Additional elements of matrix algebra Linear programming The simplex method Duality and sensitivity analysis The transportation and assignment problems Integer programming

**Matrices in Control Theory** Stephen Barnett, 1971     An Introduction to Linear Programming and Matrix Game Theory Michael John Fryer, 1978     **An Introduction to Linear Programming and Matrix Game Theory** Michael John Fryer, 1978     **Essentials of Finite Mathematics** Robert F. Brown, Brenda W. Brown, 1990-01-01 This book concentrates on four topics that are at heart of an introductory mathematics course for majors in the social and biological sciences as well as business The presentation is as complete as possible at this level There is more than enough material for a one semester course yet the overall size of the book is appropriate for courses of this length     An Introduction to Matrices, Vectors, Linear Programming Hugh G. Campbell, 1985     **Matrices and Simplex Algorithms** Aart R. Heesterman, 1983 This book provides an introduction to the theory and application of a range of mathematical programming algorithms and to the prerequisite fields of linear algebra and the graphical presentation of a number of rational functions The algorithms offered cover matrix inversion linear programming quadratic programming with linear side conditions quadratic programming with quadratic side conditions and integer programming The resolution of mixed systems of equations and inequalities systems with sign constrained and free variables and the accommodation of upper and lower limits in specified variables without explicitly written restrictions are discussed for linear programming as well as for quadratic programming with linear side conditions Of the algorithms provided the sequentially constrained maximization method for solving the general quantitative programming problem is in part novel The other algorithms are in outline established methods There is however a more direct approach to the problem of the infeasible starting solution and as a result a less rigid separation between the traditional I and II than is usual     **Solutions Manual for Matrices and Linear Programming with Applications**

Toshinori Munakata, 1979     Elementary Matrix Algebra with Linear Programming Richard J. Painter, Richard P. Yantis, 1971

**Matrices in Control Theory** Stephen Barnett, 1984     **Linear Programming 1** George B. Dantzig, Mukund N. Thapa, 1997-01-27 Encompassing all the major topics students will encounter in courses on the subject the authors teach both the underlying mathematical foundations and how these ideas are implemented in practice They illustrate all the concepts with both worked examples and plenty of exercises and in addition provide software so that students can try out numerical methods and so hone their skills in interpreting the results As a result this will make an ideal textbook for all those coming to

the subject for the first time Authors note A problem recently found with the software is due to a bug in Formula One the third party commercial software package that was used for the development of the interface It occurs when the date currency etc format is set to a non United States version Please try setting your computer date currency option to the United States option The new version of Formula One when ready will be posted on WWW

**Matrices, Elimination and the Simplex Method** William Orchard-Hays,2013-04

**Linear Programming and Matrix Algebra** Samuel C. Hanna,John C. Saber,1978

**Mathematical Introduction to Linear Programming and Game Theory** Louis Brickman,2012-12-06

Mathematical elegance is a constant theme in this treatment of linear programming and matrix games Condensed tableau minimal in size and notation are employed for the simplex algorithm In the context of these tableau the beautiful termination theorem of R G Bland is proven more simply than heretofore and the important duality theorem becomes almost obvious Examples and extensive discussions throughout the book provide insight into definitions theorems and applications There is considerable informal discussion on how best to play matrix games The book is designed for a one semester undergraduate course Readers will need a degree of mathematical sophistication and general tools such as sets functions and summation notation No single college course is a prerequisite but most students will do better with some prior college mathematics This thorough introduction to linear programming and game theory will impart a deep understanding of the material and also increase the student s mathematical maturity

*Introduction to Linear Programming* Leonid Nison Vaserstein,2003 For a one semester course in Linear Programming for upper level students with varying mathematical backgrounds Written to include three different mathematical levels this text strikes the necessary balance for a class consisting of students with varying mathematical backgrounds It covers the basics of Linear Programs and also includes an appendix that develops many advanced topics in mathematical programming for students who plan to go on to graduate level study in this field Many exercises of varying difficulty provide introductory students the opportunity to progress through the material at a steady pace while advanced students can proceed to the more challenging material

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web for university leadership laboratory researchers and environmental health and safety professionals to support safety as a core value of their institutions the report discusses ways to fulfill that commitment through prioritizing funding for safety equipment and training as well as making safety an ongoing operational priority a strong

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web for more information on biosafety cabinets and guidance on selecting a cabinet see the biosafety cabinet section in biosafety equipment either the principal investigator pi or the department must schedule arrangements and payment you can contact tss inc at 510 845 5591

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web the 377 bs13 lab has one autoclave three class ii type a2 biosafety cabinets bsc one class ii type b2 total exhaust bsc four cell culture incubators 3 of which are heracell cell locker incubators and a sony 4laser 6color facs sorter in a custom bsc

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web jun 2 2022 class i and ii biosafety cabinets are used for biosafety levels i and ii but when used correctly in conjunction with useful microbiological techniques these provide an effective containment system for safe manipulation of moderate and high risk microorganisms