

Simplex method

- Example (All constraints are \leq)

Solve the following problem using the simplex method

- **Maximize**

$$Z = 3X_1 + 5X_2$$

Subject to

$$X_1 \leq 4$$

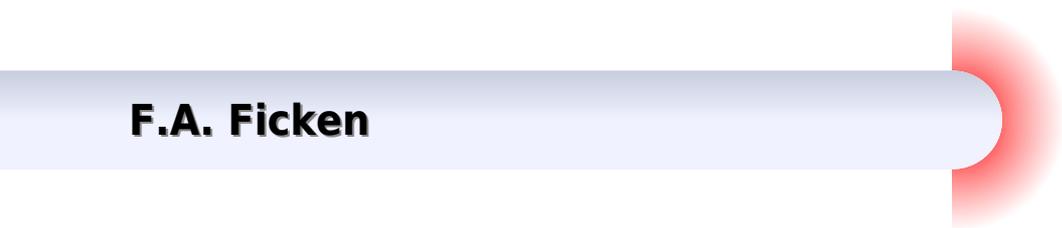
$$2X_2 \leq 12$$

$$3X_1 + 2X_2 \leq 18$$

$$X_1, X_2 \geq 0$$

Linear Programming Problems And Solutions Simplex Method

F.A. Ficken



Linear Programming Problems And Solutions Simplex Method:

Operations Research (linear Programming) P Rama Murthy, 2005 The Subject Operations Research Is A Branch Of Mathematics Many Authors Have Written Books On Operations Research Most Of Them Have Mathematical Approach Rather Than Decision Making Approach Actually The Subject Deals With Applied Decision Theory So I Have Dealt With The Subject With Decision Theory Approach The Book Has Fifteen Chapters The First Five Chapters Deal With Linear Programming Problems Such As Resource Allocation Problem Transportation Problem And Assignment Problem Both Maximization And Minimization Versions In The First Chapter The Historical Background Of Operations Research O R And Definition And Objective Of The Subject Matter Along With Model Building Is Discussed To Help The Learners To Have Basic Knowledge Of O R Typical Problems Of Mathematical Orientation And Decision Making Orientation Have Been Solved In Transportation Model And In Assignment Model Problems Useful To Production And Operations Management Have Been Solved To Make The Students To Know The Application Part Of The Subject The Sixth Chapter Deals With Sequencing Model Where The Importance And Application Of The Models Is Dealt In Detail The Problem Of Replacement Is Discussed In Chapter 7 Inventory Model With Certain Topics Like Abc Ved Fsn P System And Q System Is Discussed To Make The Students Aware Of The Importance Of Inventory Model Chapter 9 Deals With Waiting Line Model And Its Application With Certain Useful Problems And Their Solutions Game Theory Or Competitive Theory Is Discussed In Chapter 10 With Certain Problems Which Have Their Application In Real World Situation Dynamic Programming Is Dealt In Chapter 11 The Problems Worked Out Have Practical Significance Chapter 12 Deals With Decision Theory Where The Usefulness Of Decision Tree Is Discussed Non Linear Programming Is Briefly Discussed In Chapter 14 With Certain Useful Problems In Chapter 15 The Two Network Techniques I E Pert And Cpm Have Been Discussed With Typical Worked Out Examples At The End Of The Book Objective Type Questions Which Are Helpful For Competitive Examinations Are Given To Help The Students To Prepare For Such Examinations

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