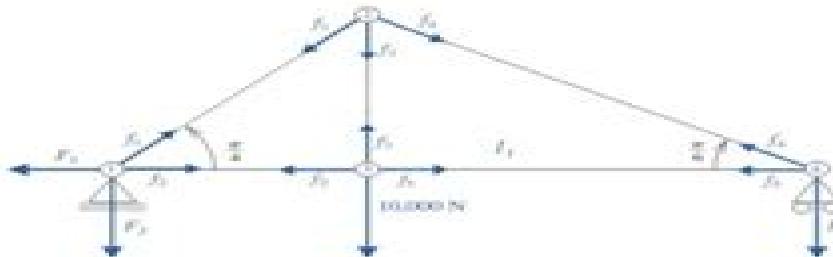


## Iterative Techniques in Matrix Algebra

## Introduction

Trusses are lightweight structures capable of carrying heavy loads. In bridge design, the individual members of the truss are connected with rotatable pin joints that permit forces to be transferred from one member of the truss to another. The accompanying figure shows a truss that is held stationary at the lower left endpoint  $\textcircled{1}$  is permitted to move horizontally at the lower right endpoint  $\textcircled{4}$  and has pin joints at  $\textcircled{2}$ ,  $\textcircled{3}$ , and  $\textcircled{5}$ . A load of 10,000 newtons (N) is placed at joint  $\textcircled{3}$ , and the resulting forces on the joints are given by  $f_1$ ,  $f_2$ ,  $f_3$ ,  $f_4$ , and  $f_5$ , as shown. When positive, these forces indicate tension on the truss elements and, when negative, compression. The stationary support member could have both a horizontal force component  $F_1$  and a vertical force component  $F_2$ , but the movable support member has only a vertical force component  $F_3$ .



If the truss is in static equilibrium, the forces at each joint must add to the zero vector, so the sum of the horizontal and vertical components at each joint must be 0. This produces the system of linear equations shown in the accompanying table. An  $8 \times 8$  matrix describing this system has 47 zero entries and only 17 nonzero entries. Matrices with a high percentage of zero entries are called *sparse* and are often solved using iterative rather than direct techniques. The iterative solution to this system is considered in Exercise 15 of Section 7.3 and Exercise 10 in Section 7.4.

Joint	Horizontal Component	Vertical Component
$\textcircled{1}$	$-F_1 + \sqrt{2}f_1 + f_2 = 0$	$\sqrt{2}f_1 - F_2 = 0$
$\textcircled{2}$	$-\sqrt{2}f_1 + \sqrt{2}f_4 = 0$	$-\sqrt{2}f_1 - f_3 - \frac{1}{2}f_4 = 0$
$\textcircled{3}$	$-f_2 + f_3 = 0$	$f_3 - 10,000 = 0$
$\textcircled{4}$	$-\sqrt{2}f_4 - f_3 = 0$	$\frac{1}{2}f_4 - F_3 = 0$

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