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(Problem 2.16 of Arora's Introduction to Optimum Design): Design of a two-bar truss. Design a symmetric two bar truss (both members have the same cross section) shown in figure to support a load  $W$ .

### Question 1 - UFL MAE

1. Introduction to Design Optimization 2. Optimum Design Problem Formulation 3. Graphical Optimization and Basic Concepts 4. Optimum Design Concepts: Optimality Conditions 5. More on Optimum Design Concepts: Optimality Conditions 6. Optimum Design with Excel Solver 7. Optimum Design with MATLAB 8. Linear Programming Methods for Optimum Design 9.

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optimum design problem formulation, basic concepts that characterize an optimum design, basic concepts of numerical methods for optimization, and simple but illustrative examples of optimum design. In addition, some exposure to the use of optimization software would be quite beneficial.

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