

## OPTIMUM STRUCTURAL DESIGN FOR MINIMUM WEIGHT

Structural design is essentially a process by which a structure's configuration is evolved from initial ideas and concepts through an iterative procedure of analysis, evaluation and revision to satisfy specific functional requirements. The advent of high speed digital computers and the development of finite elements techniques make analyses of most structures a routine task. It is natural to aim at further computer automation of the design process as the next phase of development. This report describes the work completed in that direction to date by the Engineering Computing Section.