

# Robot Structural Analysis User Manual

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the structural analysis code kit sack is a collective group of structural computer programs which solve typical problems encountered in analysis and design the user is expected to be familiar with structural analyses typically found in textbooks or an engineering school curriculum these programs are free from proprietary limitations and are smaller in scope than large commercial programs the programs are very simple to use and understand they will not become obsolete when new building codes are developed and updated because of the distinct difference between analysis and design sack programs aid in the analysis phase of structures and give numerical answers for deflections moments shears and axial loads the results are used in turn to evaluate members in the design phase using current building codes to decide if acceptable member sizes are appropriate and safe six individual programs comprise sack they are contained on separate floppy diskettes the programs are 1 continuous beam contbm 2 plane frame plframe 3 plane truss pltruss 4 grid frame grframe 5 space truss struss 6 space frame sframe

an automated general purpose system for analysis is presented this system identified by the acronym magic for matrix analysis via generative and interpretive computations provides a flexible framework for implementation of the finite element analysis technology the subject document volume ii contains instructions for the preparation of input data and interpretation of output data with examples drawn from the applications presented in volume i

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