

General Description

Section 1

1.1 Introduction

The STAAD analysis engine is described in this section. The STARDYNE analysis engine is discussed in Section 6.

This section of the manual contains a general description of the analysis and design facilities available in STAAD. Specific informations on Steel, Concrete, and Timber design are available in Sections 2, 3, and 4 of this manual, respectively. Detailed command formats and other specific user information is presented in Section 5.

The objective of this section is to familiarize the user with the basic principles involved in the implementation of the various analysis/design facilities offered by the STAAD engine. As a general rule, the sequence in which the facilities are discussed follows the recommended sequence of their usage in the input file.

1.2 Input Generation

See Section 5

The user communicates with STAAD through an input file. The input file is a text file consisting of a series of commands which are executed sequentially. The commands contain either instructions or data pertaining to analysis and/or design. The

Stardyne User Manual

**Gerald J. Moyar, Walter D.
Pilkey, Barbara F. Pilkey**



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Shock and Vibration Computer Programs Barbara Pilkey, 1975 Structural Mechanics Software Series, 1977 An Assessment of Current Capability for Computer Analysis of Shell Structures Richard F. Hartung, 1971 The report contains an assessment of current shell analysis capability The assessment is based on work conducted at the Lockheed Palo Alto Research Laboratory under contract to the Air Force Flight Dynamics Laboratory In addition to surveying the open literature information for the study was gathered during a series of visits made to organizations throughout the United States at which there is an active shell analysis research effort More than 40 industrial concerns government agencies and universities have been visited to date During each visit technical personnel working in the area of shell analysis were interviewed to determine the scope of their present analysis capability to learn of current research activities and to discuss computer methods of shell analysis in general Information so obtained is summarized in a series of briefs which appear in the Appendix of this report

Track/Train Dynamics and Design Gerald J. Moyer, Walter D. Pilkey, Barbara F. Pilkey, 2013-10-22 Track Train Dynamics and Design Advanced Techniques reviews the progress that has been made in the development and applications of advanced analytical techniques for improving the dynamic stability safety and reliability of current generation rail freight vehicle components and track structures Topics covered range from structural mechanics and stress analysis methods to and material science techniques for the prediction of fracture and wear in railroad applications The nature of technology transfer from other application areas notably aerospace is considered along with the unique nature of some railroad problems This book is comprised of 26 chapters and opens with an overview of Phase II of the Cooperative Track Train Dynamics Program including its main goals tasks and progress The reader is then introduced to the state of the art of rail analytical techniques and cost benefit issues associated with railways and railroad transportation The following chapters explore body centerplate fatigue cracking mathematical models for track train dynamics wheel and rail wear during freight car curving and application of advanced stress analysis techniques in the design of freight car components The application of finite element analysis to the study of railroad wheel failure phenomena is also outlined This monograph will be a useful resource for transportation and mechanical engineers especially those dealing with railroads **The Shock and Vibration Bulletin**

, 1983-05 **Numerical and Computer Methods in Structural Mechanics** Steven J. Fenves, Nicholas Perrone, Arthur R. Robinson, 2014-05-10 Numerical and Computer Methods in Structural Mechanics is a compendium of papers that deals with the numerical methods in structural mechanics computer techniques and computer capabilities Some papers discuss the analytical basis of the computer technique most widely used in software that is the finite element method This method includes the convergence in terms of variation principles isoparametrics hybrid models and incompatible displacement models Other papers explain the storage or retrieval of data as well as equation solving algorithms Other papers describe general purpose structural mechanics programs alternatives to and extension of the usual finite element approaches Another

paper explores nonlinear dynamic finite element problems and a direct physical approach to determine finite difference models Special papers explain structural mechanics used in computing particularly those related to integrated data bases such as in the Structures Oriented Exchange System of the Office of Naval Research and the integrated design of tanker structures Other papers describe software and hardware capabilities for example in ship design fracture mechanics biomechanics and crash safety The text is suitable for programmers computer engineers researchers and scientists involved in materials and industrial design

A Collection of Technical Materials ,1982 *NUREG/CR*. U.S. Nuclear Regulatory Commission,1979 **A Collection of Technical Papers** ,1982 *Technical Report* ,1973 *Dynamic Analysis User's Guide* MSC Software,2011-10-28 **Structural Mechanics Computer Programs** K. Saczalski,Harry G. Schaeffer,1974

Plastics Product Design Engineering Handbook Sidney Levy,2012-12-06 Plastics have become increasingly important in the products used in our society ranging from housing to packaging transportation business machines and especially in medicine and health products Designing plastic parts for this wide range of uses has become a major activity for designers architects engineers and others who are concerned with product development Because plastics are unique materials with a broad range of proper ties they are adaptable to a variety of uses The uniqueness of plastics stems from their physical characteristics which are as different from metals glasses and ceramics as these materials are different from each other One major concern is the design of structures to take loads Metals as well as the other materials are assumed to respond elastically and to recover completely their original shape after the load is removed Based on this simple fact extensive literature on applied mechanics of materials has been developed to enable designers to predict accurately the performance of structures under load Many engineers depend on such texts as Timoshenko s *Strength of Materials* as a guide to the performance of structures Using this as a guide generations of engineers have designed economical and safe structural parts Unfortunately these design principles must be modified when designing with plastics since they do not respond elastically to stress and undergo permanent deformation with sustained loading *SSC*. United States. Ship Structure Committee,1990

Blast Resistant Structures ,1986 **Structural Engineering in Nuclear Facilities** ,1984 **Deflections of Concrete Structures** ,1974 **Transactions of the 6th International Conference on Structural Mechanics in Reactor Technology, Palais Des Congres, Paris, France, 17-21 August 1981** ,1981 **Paper** ,1991 **Winter Annual Meeting** American Society of Mechanical Engineers,

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