

ALFABETO

Es un paquete de programas integrados para el análisis, diseño y graficación de estructuras planas o tridimensionales.

A. ANÁLISIS

Utiliza el método de los rigideces, puede considerar deformación axial, flexión y torsión. El programa hace suposiciones del método de los nudos, no pueden considerarse los efectos P- Δ . También se pueden analizar en análisis dinámico para obtener frecuencias y modos de vibrar por respuesta espectral, se comparan la opción de considerar los resultados con los del análisis estático para obtener observados resultados de diseño.

Los apoyos pueden ser fijos, articulados o con rigidez predetermina.

Acepta cargas en los nodos y/o en las barras, éstas pueden ser de tipo uniformes, concentrada, de temperatura, de gravedad, de viento, de vehículos, desplazamientos impuestos, fuerzas de frenado, etc.

Se pueden hacer combinaciones de cargas factorizadas.

Los resultados del análisis, además de los desplazamientos, momentos y esfuerzos internos pueden ser Fuerzas, desplazamientos y derivadas en puntos intermedios de las barras.

1. Sistemas de Referencia.

a. Sistema Global

En diseño y tipo, está dado por los ejes X , Y , y Z , en cualquier dirección. A este sistema se le denota referencias: Coordenadas, cargas y/o movimientos suministrados en los nodos, así como los desplazamientos, ver Figura 1.

b. Sistema Local

Cada barra tiene su propio sistema de ejes local y está dado por los ejes x , y , z , en cualquier dirección. El eje local "x" es del nudo inicio "I" al nudo final "F", los ejes y , z coinciden con los ejes principales de inercia, ver Figura 2.

c. Relaciones entre Sistema Global y Local.

Los sistemas de referencia global y local, se relacionan a través del ángulo BETA definido para cada elemento, la forma de ángulo se lo siguiente:

Respecto al eje local x , se garantiza al eje global "Y", por ejemplo el caso de una columna en una estructura, BETA es el ángulo que hay que girar el eje x local alrededor de x -local para que llegue a la posición deseada de Y -global.

Respecto al eje local "x" se se garantiza al "Y"-global, BETA, es el ángulo que hay que girar alrededor de x -local para que x -local sea paralelo al plano X -Z y el y -local tenga la misma dirección del "Y"-global.

En la Figura 3, se muestran algunos ejemplos que pueden servir para una rápida idea del ángulo BETA. Como alternativa, se define un punto de referencia (tomando el comando REF), con el cual se define el plano x -y del elemento.

Staad Iii User Manual

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STAAD-III Cybernet Services,Control Data Corporation,1982 User's Guide ,1994 **Handbook of Structural Engineering** W.F. Chen,1997-10-24 Covering the broad spectrum of modern structural engineering topics the Handbook of Structural Engineering is a complete single volume reference It includes the theoretical practical and computing aspects of the field providing practicing engineers consultants students and other interested individuals with a reliable easy to use source of information Divided into three sections the handbook covers **Site Characterization Progress Report** ,1996

Steel Design Handbook Akbar R. Tamboli,1997 Very Good No Highlights or Markup all pages are intact **Tunnel Engineering Handbook** Thomas R. Kuesel,Elwyn H. King,John O. Bickel,2012-12-06 The Tunnel Engineering Handbook Second Edition provides in a single convenient volume comprehensive coverage of the state of the art in the design construction and rehabilitation of tunnels It brings together essential information on all the principal classifications of tunnels including soft ground hard rock immersed tube and cut and cover with comparisons of their relative advantages and suitability The broad coverage found in the Tunnel Engineering Handbook enables engineers to address such critical questions as how tunnels are planned and laid out how the design of tunnels depends on site and ground conditions and which types of tunnels and construction methods are best suited to different conditions Written by the leading engineers in the fields this second edition features major revisions from the first including Complete updating of all chapters from the first edition Seven completely new chapters covering tunnel stabilization and lining difficult ground deep shafts water conveyance tunnels small diameter tunnels fire life safety tunnel rehabilitation and tunnel construction contracting New coverage of the modern philosophy and techniques of tunnel design and tunnel construction contracting The comprehensive coverage of the Tunnel Engineering Handbook makes it an essential resource for all practicing engineers engaged in the design of tunnels and underground construction In addition the book contains a wealth of information that government administrators and planners and transportation officials will use in the planning and management of tunnels **Proceedings** American Society for Engineering Education. Conference,1984 *Corps of Engineers Structural Engineering Conference* ,1992 **Concrete International** ,1994 Advances in Civil and Structural Engineering Computing for Practice B. H. V. Topping,1998

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Engineering in Natural Hazards Mitigation Alfredo Hua-Sing Ang, Roberto Villaverde, 1993 AutoCAD Sourcebook , 1989
From the world's leading CAD software publisher comes this ideal guide to AutoCAD applications. Covers AutoCAD add-ons, enhancements, and solutions to common problems. An ideal resource. Infrastructure Kim D. Basham, 1994. This multidisciplinary volume reviews various new materials and methods used to maintain and rehabilitate the infrastructure systems of the United States. Providing over 120 papers, contributors from a wide variety of disciplines and specialties examine the research and development of high performance materials, new and innovative repair technologies, material durability, and material testing, recycled materials, nondestructive evaluation, and quality control. In addition, case studies highlight the use of concrete, bituminous aggregate, base course, structural composite, and plastic metal and timber materials in rehabilitation efforts. **Paper** , 1997

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