

So before any costly system modification is made, the model will be refined to incorporate these **WRC 297 nozzle flexibilities**. It is possible that a more thorough and accurate model of the system will show that re-design is not needed. To assist in this model update, **CAESAR II** provides a processor, which will calculate and insert these flexibilities into the system. This change will constitute the second analysis of this layout.

Return to the input processor for the job Tutor. Go to the spreadsheet that contains the nozzle node (40) and double click the **Nozzle** check box. Enter the correct data in the **Auxiliary Data Area** as illustrated in the figure below.

The nozzle pipe size is imported from the spreadsheet. If this nozzle connection had no associated thermal growth, the vessel node number need not be entered. Since this vessel has thermal growth, the vessel node number must be identified and the thermal displacements previously assigned to node 40 must be re-assigned to this new node number. Enter the vessel node number as node 6000. The calculated nozzle flexibilities will be applied between nodes 40 and 6000. The vessel dimensions are entered here in terms of OD, wall thickness, and reinforcing pad thickness. WRC 297 flexibilities are also sensitive to the proximity of stiffeners to the nozzle. Here, a tray in the vessel is closest to the nozzle and is 4 ft above the nozzle. On the other side of the nozzle, the bottom head tangent and skirt connection is 6 ft below. The vessel orientation, based on a direction vector, is entered next. Enter 1 in the Y direction to indicate a vertical vessel. This Z nozzle and Y vessel will define the orientation of the local stiffeners assigned through WRC 297. This completes the definition of the nozzle. There will be no piping element defined between nodes 40 and 6000. Now the displacements provided at node 40 must be moved to node 6000. Simply click on displacements and change node 40 to 6000.

Nozzles

Type
☒ WRC 297
☐ API 550
☐ PD 5500

Nozzle Node: 40

Vessel Node (optional): 6000

Nozzle Outer Diameter: 8.625

Nozzle Wall Thickness: 0.322

Vessel Outer Diameter: 60.000

Vessel Wall Thickness: 0.250

Vessel Pad Thickness: 0.100

Distance to Stiffener or Head: 48.000

Distance to Opposite Stiffener: 72.000

Vessel Centerline Direction Cosine VX:

Vessel Centerline Direction Cosine VY: 1.000

Vessel Centerline Direction Cosine VZ:

Vessel Temperature (optional):

Vessel Material (optional):

Displacements

Node 1: 6000

	Vector 1	Vector 2	Vector 3
EX	0.0000		
EY	0.2500		
EZ	-0.1000		
FX	0.0000		
FY	0.0000		
FZ	0.0000		

Displacement on Vessel Node

WRC 297 Input

Caesar Ii Stress Guide

**Seyed Sattar Emamian, Mokhtar
Awang, Jeeferie Abd Razak, Patrick J.
Masset**

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The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries Geoff B. Barker, 2017-11-25 The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real world reference to design, manage and implement safe and effective plants and piping systems for today's operations. This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe, economical, operable and maintainable process facility. Easy to understand for the novice, this guide includes critical standards, newer designs, practical checklists and rules of thumb. Due to a lack of structured training in academic and technical institutions, engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry. Starting with basic terms, codes and basis for selection, the book focuses on each piece of equipment such as pumps, towers, underground piping, pipe sizes and supports, then goes on to cover piping stress analysis and the daily needed calculations to use on the job. Delivers a practical guide to pipe supports, structures and hangers available in one go to source. Includes information on stress analysis basics, quick checks, pipe sizing and pressure drop. Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE. Focuses on each piece of equipment such as pumps, towers, underground piping, pipe sizes and supports. Covers piping stress analysis and the daily needed calculations to use on the job.

Australian Guidebook for Structural Engineers Lonnie Pack, 2017-07-28 This guidebook is a practical and essential tool providing everything necessary for structural design engineers to create detailed and accurate calculations. Basic information is provided for steel, concrete and geotechnical design in accordance with Australian and international standards. Detailed design items are also provided, especially relevant to the mining and oil and gas industries. Examples include pipe supports, lifting analysis and dynamic machine foundation design. Steel theory is presented with information on fabrication, transportation and costing, along with member connection and anchor design. Concrete design includes information on construction costs as well as detailed calculations ranging from a simple beam design to the manual production of circular column interaction diagrams. For geotechnics, simple guidance is given on the manual production and code compliance of calculations for items such as pad footings, piles, retaining walls and slabs. Each chapter also includes recommended drafting details to aid in the creation of design drawings. More generally, highly useful aids for design engineers include section calculations and force diagrams. Capacity tables cover real world items such as various slab thicknesses with a range of reinforcing options, commonly used steel sections and lifting lug capacities. Calculations are given for wind, seismic, vehicular, piping and other loads. User guides are included for Space Gass and Strand7, including a non-linear analysis example for lifting lug design. Users are also directed to popular vendor catalogues to acquire commonly used items such as steel sections, handrails, grating, grouts and lifting devices. This guidebook supports

practicing engineers in the development of detailed designs and refinement of their engineering skill and knowledge *Oil & Gas Design Engineering Guide Book* M. Aslam Imadi, 2023-02-03 *Oil Gas Design Engineering Guide Book* consists of a set of valuable practices applicable to design engineering services such as Projects Engineering Design House Requisites Guidelines for Technical Package Writing Quality Assurance Management System Typical set of Project Design Deliverables and some prevalent Design Engineering Software It also includes guide notes for various oil gas facilities such as pipelines piping tanks pressure vessels rotating equipment heaters heat exchangers effluent water treatment systems and flares It is noted that the documents and articles included in this book will surely be of assistance and value to the readers and specifically to engineers in the Oil Gas field *Computer Graphics World Buyers Guide*, 1993 **ANCILLARY**

EQUIPMENT AND ELECTRICAL EQUIPMENT - Volume I, 2010-12-03 Ancillary Equipment and Electrical Equipment is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The volume presents state of the art subject matter of various aspects of Ancillary Equipment And Electrical Equipment such as Seawater Supply Pump Cooling Water Recirculation Pump Brine Recirculation Pump Brine Blowdown Pump Brine Heater Condensate Pump Minor Pumps For Desalination Plants The Installation Criteria And The Layout Hydraulic Aspects In Design And Operation Of Axial Flow Pumps Description Of Surface Vortices With Regard To Common Design Criteria Of Intake Chambers Vacuum Creating Equipment Filtering Equipment Chemical Dosing Stations On Load Sponge Ball Cleaning System Power Supply Systems And Electrical Equipment For Desalination Plants Composite Materials For Pressure Vessels And Pipes Thermal Stresses In Vessels Piping And Components Pressure Vessels And Piping Systems Reliability Risk And Safety Assessment Pressure Vessels And Shell Structures Pipeline Operations Steel And Pipe Mill Technology Pipeline Structural Integrity Pipeline System Automation And Control Pump And Compressor Operation Environmental Conservation Practices For Pipelines This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers **Outline Guide to Shakespeare** Paul Kaufman, 1924

Mechanical Engineering, 2005 *Engineering Digest*, 1992 **Failure Analysis** Jose Luis Otegui, 2014-01-02 This book addresses the failures of structural elements i e those components whose primary mission is to withstand mechanical loads The book is intended as a self contained source for those with different technical grades engineers and scientists but also technicians in the field can benefit from its reading **PIPING ENGINEERING** Prabhu TL, Unlock the intricate world of piping engineering with this comprehensive guide that delves deep into the art and science of fluid conveyance systems Whether you re an aspiring engineer seeking to refine your skills or a seasoned professional looking to expand your expertise Piping Engineering offers a wealth of knowledge to elevate your understanding of this critical discipline The Art of Fluid Conveyance Step into the heart of fluid transport as Piping Engineering takes you on a journey through the principles and

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[Maintaining Financial Stability in Times of Risk and Uncertainty](#) Behl, Abhishek,Nayak, Sushma,2018-12-04 Risks and uncertainties market financial operational social humanitarian environmental and institutional are the inherent realities of the modern world Stock market crashes demonetization of currency and climate change constitute just a few examples that can adversely impact financial institutions across the globe To mitigate these risks and avoid a financial crisis a better understanding of how the economy responds to uncertainties is needed

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