The purpose of this workbook is the design of rectangular tanks with horizontal stiffeners. Reference: "Pressure Vessel Handbook", 8th & 14th Editions and also "Roarkes Formulas for Stress and Strain", 7th Edition Job: NUMBER Dantes 05/03/2009 Description: DODER. LEGEND RECTANGULAR TANKS Under Hydrostatic Pressure Notes and additional actions required WITH HORIZONTAL STIFFENINGS Intermediate results NOTATION Results a = fector depending on ratio of length and height, H/L (See Table on page 204). E = modulus of elasticity, pai : 30,000,000 for carbon steel 6 - specific gravity of liquid W = height of tank, inches J. " moment of inertia, in." A. w. length of tank, inches. p . pressure of liquid, pai. R = reaction with subscripts indicating the location, Ib./in. S = stress value of plate, psi., as tabulated in ASME Code r - required place thickness, inches w = load per unit of length It fin. 200 w when III is inches w REQUERED NUMBER. 60.84 84-120-120-156 Sec. 11 Sec. OF STIFFENINGS 2 34 46 M. SPACING OF 0.60 M 0.40 W STIFFEININGS 0.45 M 0.30 W 0.25 at 36 0.37 W | 0.25 W | 0.21 W | 0.17 M 0.31 W 0.21 W 0.18 M 0.16 M 0.14 M www.date.com LOAD Ib. Sin. MINIMUM MOMENT Note to sheet user: When using Solver tool solve for the OF INERTIA FOR 2 - 1.25 R - 25 reflecte At + 40.7 mg maximum stress in cell B176 equal to to the maximum STIFFFENING allowable stress in cell B53 by changing the minimum 1 = 0.34TV 0.036 OH recommended thickness in cell E126. THIS MUST BE DONE IN REQUIRED PLATE THECKNESS ORDER TO ASSURE THE CORRECT THICKNESS IS RECOMMENDED BELOW! W =134 ft^3 Longest horizontal span between sufficient vertical supports, such as 30,000,000 psi E vertical stiffeners, stays or vessel corners. 1.78 G =INPUT 72 in WV -84.5 in. 50 lin L =Minimum recommended thickness S =16,700 psi 100 0.2500 in 0.2500 in Actual thickness used including corrosion allowance, if applicable, MAKE SURE TO CHANGE THIS TO GET PROPER STIFFENER SIZES!

# **Rectangular Tank Design With Horizontal Stiffening**

Alessandro de Iaco Veris

#### **Rectangular Tank Design With Horizontal Stiffening:**

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Proceedings of the 9th International Conference on Civil Engineering Guangliang Feng, 2023-06-17 This open access book is a compilation of selected papers from the 9th International Conference on Civil Engineering ICCE2022 The work focuses on novel research findings on seismic technology of civil engineering structures High tech construction materials digitalization of civil engineering urban underground space development The contents make valuable contributions to academic researchers and engineers Pressure Vessel Handbook Eugene F. Megyesy, 1995 This handbook should help to build better vessels faster and more economically As a manual for the maker and user of pressure vessels it is designed for the designer drafter inspector and estimator **Design of Process Equipment** Kanti K. Mahajan, 1985 Oxy-acetylene Oxy-acetylene Tips for the Linde Ox-welder ,1922 **Tips** ,1922 Applied Mechanics Reviews ,1968 Reinforced Concrete Designer's Handbook Charles E. Reynolds, James C. Steedman, Anthony J. Threlfall, 2007-08-07 This classic and essential work has been thoroughly revised and updated in line with the requirements of new codes and standards which have been introduced in recent years including the new Eurocode as well as up to date British Standards It provides a general introduction along with details of analysis and design of a wide range of structures and examination of design according to British and then European Codes Highly illustrated with numerous line diagrams tables and worked examples Reynolds s Reinforced Concrete Designer s Handbook is a unique resource providing comprehensive guidance that enables the engineer to analyze and design reinforced concrete buildings bridges retaining walls and containment structures Written for structural engineers contractors consulting engineers local and health authorities and utilities this is also excellent for civil and architecture departments in universities and FE colleges Technical Report ,1940 Chemistry and Industry Mechanical World and Engineering Record ,1939 .1954 Corrosion, 1961-07 Issues include special section called Proceedings Society of Chemical Industry (Great Britain). Chemical Engineering Group, 1954 Corrosion abstracts

**Preprints of Papers** Australasian Corrosion Association Inc. Conference, **Fundamental Concepts of Liquid-Propellant Rocket Engines** Alessandro de Iaco Veris,2020-09-26 This book is intended for students and engineers who design and develop liquid propellant rocket engines offering them a guide to the theory and practice alike It first presents the fundamental concepts the generation of thrust the gas flow through the combustion chamber and the nozzle the liquid propellants used and the combustion process and then qualitatively and quantitatively describes the principal components involved the combustion chamber nozzle feed systems control systems valves propellant tanks and interconnecting elements The book includes extensive data on existing engines typical values for design parameters and

worked out examples of how the concepts discussed can be applied helping readers integrate them in their own work

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each chapter together with information on valuable resources that can be found online Given its scope the book will be of
particular interest to undergraduate and graduate students of aerospace engineering

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Adopting the Song of Expression: An Psychological Symphony within **Rectangular Tank Design With Horizontal Stiffening** 

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