

Introduction To Chemical Equipment Design Mechanical Aspects

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this book has been designed for chemical engineering students to introduce them to the detailed mechanical design of equipments frequently used in the chemical process industry it also caters to the needs of professional design engineers in industry t

still the only book offering comprehensive coverage of the analysis and design of both api equipment and asme pressure vessels this edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest asme codes and api standards in addition to covering the code requirements governing the design of process equipment the book supplies structural mechanical and chemical engineers with expert guidance to the analysis and design of storage tanks pressure vessels boilers heat exchangers and related process equipment and its associated external and internal components the use of process equipment such as storage tanks pressure vessels and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries the extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to

an exacting standard accordingly codes and standards such as the asme and api were written to assure safety still the only guide covering the design of both api equipment and asme pressure vessels structural analysis and design of process equipment 3rd edition covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers now includes numerical vibration analysis needed for earthquake evaluation relates the requirements of the asme codes to international standards describes in detail the background and assumptions made in deriving many design equations underpinning the asme and api standards includes methods for designing components that are not covered in either the api or asme including ring girders leg supports and internal components contains procedures for calculating thermal stresses and discontinuity analysis of various components structural analysis and design of process equipment 3rd edition is an indispensable tool of the trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries manufacturing as well as plant engineers in need of a reference for process equipment in power plants petrochemical facilities and nuclear facilities

all major areas of mechanical engineering are covered in this handbook subdivided under four main areas power generation plant and facility engineering environmental engineering design engineering

a guide containing human engineering recommendations and suggestions for designing mechanical equipment to increase over all ease speed and accuracy of maintenance job performance is presented it is written for engineers responsible for designing mechanical subsystems and components and is intended to serve as a convenient reference to help insure the integration of maintainability design into mechanical subsystems and components it treats both design features common to all mechanical equipment as well as features unique to certain classes of equipment

issues for 1929 include section contents noted 1929 1939 called metallurgical abstracts jan 1940 sept 1945 called engineering digest oct 1945 called materials methods digest annual indexes of the abstracts and digest were prepared 1929 1941 beginning in 1942 included in the complete index to the periodical

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