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fully updated for the 2004 edition of the asme b31 3 code this second edition provides background information historical perspective and expert commentary on the asme b31 3 code requirements for process piping design and construction it provides the most complete coverage of the code that is available today and is packed with additional information useful to those responsible for the design and mechanical integrity of process piping the author is a long serving member and present chairman of the asme b31 3 process piping code committee the 2004 edition of asme b31 3 contains significant technical changes such as addition of weld joint strength reduction factors in the creep regime alternative flexibility analysis rules alternative rules for occasional loads at elevated temperatures changes to the factors for higher and lower cycles among others the book describes these new rules and the thinking behind them dr becht explains the principal intentions of the code covering the content of each of the code s chapters book inserts cover special topics such as calculation of refractory lined pipe wall

temperature spring design design for vibration welding processes bonding processes and expansion joint pressure thrust appendices in the book include useful information for pressure design and flexibility analysis as well as guidelines for computer flexibility analysis and design of piping systems with expansion joints

this guidebook offers insight into the technologies associated with asme code design fabrication materials testing and examination of process piping this book explains specific codes and interpretations and is designed to help in design or installation of process piping

table of contents purpose 3b31 3 introduction 3i scope and definitions 4ii design 5iii materials 15iv standards for piping components 15v fabrication assembly and erection 16vi inspection examination and testing 20appendix a piping specifications 25appendix b fluid service sheets 78appendix c materials selection 98appendix d valve selection guide 103appendix e flanged connections 116appendix f alignment fit up tolerances 123appendix g component identification 128appendix h leak pressure testing 136appendix i stress analysis 142appendix j fillet weld sizes 148appendix k cleaning carbon and stainless steel pipe 153appendix l buried process pipe 159appendix m mitered joints 160appendix n branch connections 162appendix o safety class piping systems 164appendix p repairs modifications and maintenance 165appendix q application of asme b31 3 to radioactive fluids 167appendix r definition of acronyms 168lanl engineering standards manual pd342 chapter 17 pressure safety section d20 b31 3 g asme b31 3 process piping guide rev 2 3 10 09 purpose this guide provides information for the proper application of the asme b31 3 code process piping it was last updated for the 2002 edition asme b31 3 applies to process piping and tubing sy

this guidebook offers insight into the technologies associated with asme code design fabrication materials testing and examination of process piping this book explains specific codes and interpretations and is designed to help in design or installation of process piping

this book is based on the 2020 edition of asme b31 3 process piping code because changes some very significant are made to the code every edition the reader should refer to the code for any specific requirements this book should be considered as providing background information and not specific current code rules the equations in this book are numbered sequentially in each chapter when equations from asme b31 3 are reproduced herein the latter equation numbers are given as well

asme b31 3 contains requirements for piping typically found in petroleum refineries chemical pharmaceutical hydrogen textile paper and pulp power generation semiconductor and cryogenic plants and related processing plants and terminals it covers materials and components design fabrication assembly erection examination inspection and testing of piping

this guidebook offers insight into the technologies associated with asme code design fabrication materials testing and examination of process piping this book explains specific codes and interpretations and is designed to help in design or installation of process piping

taking a big picture approach piping and pipeline engineering design construction maintenance integrity and repair

elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project the author explores the qualitative details calculations and techniques that are essential in supporting competent decisions he pairs coverage of real world practice with the underlying technical principles in materials design construction inspection testing and maintenance discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines the book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application it features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity

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