

LIFTING LUG ANALYSIS

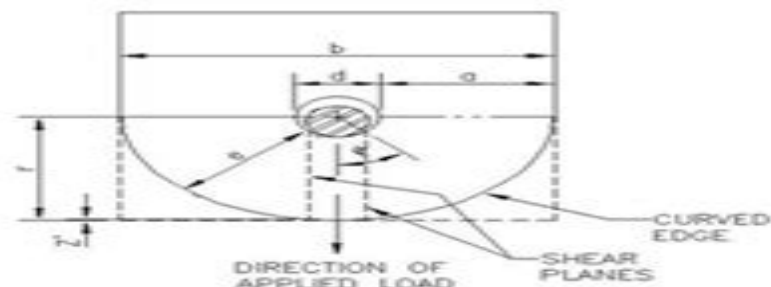
Per AISC 13th Edition ASD Manual, ASME BTH-1-2008, and
"Design and Construction of Lifting Beams" by David T. Ricker

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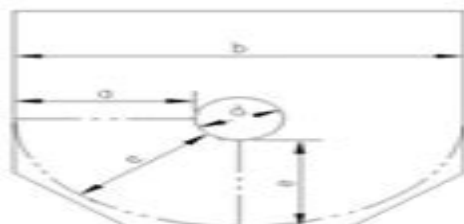
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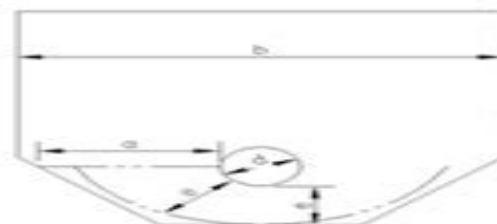
Lug Yield Strength, F_y =	36	ksi
Lug Ult. Strength, F_u =	58	ksi
Edge Dist., a =	2.283	in.
Edge Dist., e =	2.283	in.
Lug Width, b =	5.910	in.
Rounded Edge? =	Yes	
Will Pin Rotate Under Load? =	No	
Hole Diameter, d_h =	1.339	in.
Pin Diameter, d_{pin} =	1.102	in.
Lug Thickness, t =	1.181	in.
ASCE Factor of Safety, $F.S.1$ =	5.0	
ASCE Factor of Safety, $F.S.2$ =	3.1	$F.S.2 = \max\{3, F_y/(F_u/F.S.1)\}$
ASME Factor of Safety, $F.S.3$ =	3.0	Assuming Category B lifters



ASME Notation



AISC Preferred Geometry



AISC Alternate Geometry

Results:

Check Geometry:

Check 1:	O.K.	
Check 2:	N.G.	
Check 3:	O.K.	
Check 4:	N.G.	
a_{eff} =	1.67	in.
a_{max} =	2.99	in.
a_{use} =	1.67	in.

$d_h - d_{pin} > 0$, Pin fits in hole, O.K.
 $a < \max(0.5 \cdot d_h, 2 \cdot t)$, Increase a or decrease t , N.G.
 $e \geq 0.67 \cdot d_h$, Plate Proportions are O.K.
 $e < 1.33 \cdot a$, Use $a_{eff} = \min[a, 3 \cdot e/4, 4 \cdot t, d_h \cdot 1.25]$ in design
 $d_h \cdot 1.25$ controls
 $a_{max} = 2 \cdot t + .625$
 Use a_{eff} in design

Aisc Steel Construction Manual Lifting Lug

Jung-Chul (Thomas) Eun



Aisc Steel Construction Manual Lifting Lug:

Pressure Vessel and Stacks Field Repair Manual Keith Escoe, 2011-04-08 Written from the practitioner's perspective this book is designed as a companion for engineers who are working in the field and faced with various problems related to pressure vessels and stacks such as modification retrofitting existing pressure vessels or stacks to either enhance process capability lift move or replace damaged equipment This makes the book a valuable guide for new engineers who need to develop a feel for these types of operations or more experienced engineers who wish to acquire more useful tips this handy manual provides the readers with rules of thumbs and tips to mitigate or remediate problems which can occur on a daily bases Because of their size complexity or hazardous contents pressure vessels and stacks require the highest level of expertise in determining their fitness for service after these operations Care must be taken in installation removal of the vessel to avoid damage to the shell Damage to the shell can result in catastrophic failure and possible injury to personnel The book will cover topics such as lifting and tailing devices an overview of rigging equipment safety consideration inspection and repair tips methods to avoid dynamic resonance in pressure vessels and stacks wind loads and how to apply them for various applications and assessment guidelines for column internals tables and pressure vessel calculations and code formulas The examples in the book are actual field applications based on 40 years of experience from various parts of the world and are written from a view to enhance field operations In many parts of the world often in remote locations these methods were applied to repair pressure vessels and stacks These problems will still continue to happen so there is a need to know how to address them This book is to present assessments and techniques and methods for the repair of pressure vessels and stacks for field applications Also the book is to be a repair manual for easy use for mechanical engineers civil structural engineers plant operators maintenance engineers plant engineers and inspectors materials specialists consultants and academicians Lifting and tailing devices An overview of rigging equipment Inspection and repair tips Guidelines for column internals Tables and pressure vessel calculations and code formulas

Lock Gates and Other Closures in Hydraulic Projects Ryszard Daniel, Tim Paulus, 2018-11-27 Lock Gates and Other Closures in Hydraulic Projects shares the authors practical experience in design engineering management and other relevant aspects with regard to hydraulic gate projects This valuable reference on the design construction operation and maintenance of navigation lock gates movable closures of weirs flood barriers and gates for harbor and shipyard docks provides systematic coverage on all structural types of hydraulic gates the selection of gate types and their advantages and disadvantages The discussion includes the latest views in new domains such as environmental impact of hydraulic gate projects sustainability assessments relation with the issues of global climate change handling accidents and calamities and the bases of asset management Heavily illustrated this reference provides a generous amount of case studies based on the author's own and their colleagues experiences from recent projects in Europe America and other continents Presents extensive coverage of the operational profiles of hydraulic

closures including gates in navigation locks movable closures on river weirs closures of flood barriers spillway closures and valves and more Outlines the different structural types of hydraulic gates including miter gates vertical lift gates flap and hinged crest gates radial gates rolling and barge gates sector gates and many other Clearly outlines the selection process for gates for navigation locks river weirs flood barriers hydroelectric plants shipyard docks and other hydraulic structures Provides comprehensive discussion of design loads and other actions to which hydraulic gates may be subjected during their service life followed by an overview of analysis methods and tools Addresses the newest challenges and concerns in hydraulic gate projects such as environmental impact of hydraulic gate projects risk based design sustainability issues handling accidents and calamities and gate maintenance in view of asset management Presents the experiences from many recent projects in Europe and America including the rolling gates in large European sea locks gates in the Panama Canal new locks flood barriers in New Orleans and the Netherlands *General Design Standards* United States. Bureau of Reclamation,1992

Modern Steel Construction ,2009 Handbook of Bolts and Bolted Joints Sayed A. Nassar,John H. Bickford,2025-03-20 Presenting time tested standards as well as validated emerging knowledge on threaded fasteners and bolted joints this updated edition covers how to design select parts and materials control assembly processes predict behavior and solve on the job problems This handbook examines key issues affecting bolting in the automotive pressure vessel petrochemical aerospace energy and structural steel industries The editors have successfully created a useful rather than scholarly handbook with chapters written in a straightforward how to manner Theory is discussed only when necessary and the handbook s logical organization and thorough index enhance its usefulness Handbook of Bolts and Bolted Joints Second Edition includes updated chapters solved numerical examples and case studies This new edition is an essential handbook for professionals researchers and students in all fields in which threaded joints are used including automotive aerospace structural chemical and naval and ocean engineering as well as agricultural equipment wind turbines and medical devices Handbook of Steel Connection Design and Details Akbar R. Tamboli,2010 Surveys the leading methods for connecting structural steel components covering state of the art techniques and materials and includes new information on welding and connections Hundreds of detailed examples photographs and illustrations are found throughout this handbook from publisher description *Timber Construction Manual* American Institute of Timber Construction,1985 This up to date guide to the design of structural timber members and their fastenings emphasizes the design of single members such as columns beams arches and trusses as well as light repetitive members The book presents basic information on wood to give readers a thorough understanding of soundly engineered timber construction Contained within is information on loads section properties and design values for both sawn and glued laminated timber and selected AITC standards and specifications for timber construction Numerous tables aid in the design of timber structures and examples illustrate proper application of formulas featured in national standards *Design and Planning Manual for Cost Effective Welding* Frank B.

Gatto,1991 *PCI Manual for Structural Design of Architectural Precast Concrete* Prestressed Concrete Institute,1977

Structural Steel Designer's Handbook Roger Brockenbrough,Frederick Merritt,1999-12-02 The only A Z guide to structural steel design Find a wealth of practical techniques for cost effectively designing steel structures from buildings to bridges in *Structural Steel Designer's Handbook* by Roger L Brockenbrough and Frederick S Merritt The Handbook's integrated approach gives you immediately useful information about steel as a material how it's fabricated and erected how to analyze a structure to determine internal forces and moments from dead live and seismic loads how to make detailed design calculations to withstand those forces This new third edition introduces you to the latest developments in seismic design including more ductile connections and high performance steels offers an expanded treatment of welding helps you understand design requirements for hollow structural sections and for cold formed steel members and explores numerous design examples You get examples for both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD

Welding Research Council Bulletin Series Welding Research Council (U.S.),1998 *The Professional Materials Handling Learning System* ,1993 **Applied Offshore Structural Engineering** Teng H. Hsu,1984 **Energy Research Abstracts** ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Government Reports Announcements & Index** ,1995-07

Construction Calculations Manual Sidney M Levy,2011-09-23 The National Institute of Standards and Testing NIST Conversion tables and conversion formulas Calculations and formulas geometry trigonometry and physics in construction Site work Calculations relating to concrete and masonry Calculating the size weight of structural steel and miscellaneous metals Lumber calculations to select framing and trim materials Fasteners for wood and steel calculations for selection Calculations to determine the effectiveness and control of thermal and sound transmission Interior finishes Plumbing and HVAC calculations Electrical formulas and calculations Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun,2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies Facilities Drafting Manual United States. Office of Manned Space Flight,1964 **Guide for**

Design of Steel Transmission Towers American Society of Civil Engineers. Task Committee on Tower Design, 1971
Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering , 2004

Decoding **Aisc Steel Construction Manual Lifting Lug**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Aisc Steel Construction Manual Lifting Lug**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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number number of protons but different masses due to different numbers of neutrons in the nuclei the atomic mass of an element is the weighted average of the masses of the different isotopes

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web candium is an interesting element found only at fordham high school for the arts we will be using this special new element today to learn about atomic mass calculations the atomic mass listed on the periodic table for each element is a weighted average

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web 1 obtain a sample of candium separate the 3 isotopes candium red hots mini candium peanut butter regular and candium peanut large and record the numbers for each type of isotope 2 next determine the mass for each isotope and calculate the total mass in grams 3 calculate the average mass

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web cole quinn period 5 mr hans honors chemistry candium post lab questions 1 no the average atomic mass of my group s candium sample was very similar to our neighbors samples if each group were to have used larger samples of candium the respective differences would have been smaller because the larger the sample size the greater the

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web obtain a sample of candium from your teacher 2 separate the three isotopes m m s skittle s and peanut m m s and measure the mass of each isotope record in data table 1 1 3 count the number of m m s skittle s and peanut m m s record in data table 1 1

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web procedure 1 place the candium atoms in a paper towel or a small bag 2 gently shake the atoms for 30 seconds this is the estimated half life of your candy 3 gently pour out the atoms onto a paper towel 4 count the number of atoms with the print side up these atoms have decayed 5

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horns 2 trumpets 3 trombones 1 tuba timpani percussion bass drum cymbals snare drum triangle harp and strings

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web some of arutiunian s works for wind instruments include his 1950 concerto for trumpet the concerto for tuba and the brass quintet armenian scenes in 1988 inspired by the spitak earthquake arutiunian composed his concerto for violin and string orchestra armenia 88 dedicated to ruben aharonyan

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