

Project	2-Phase Design Spreadsheet		By
Calculation:	BS 5951-4		Approved:
Sheet Number:	1		Date:

Section Details			
Geometry	L	2000	Applied?
Grade	62.75	Depth	0
Top Flange Width B_f	60 mm	Top Scaffolding Lip D_{t1}	20 mm
Bottom Flange Width B_b	60 mm	Bottom Scaffolding Lip D_{b1}	20 mm
Effective Length L_e	2000 mm	Thickness t	7 mm
Fixed end Conditions	Fixed against Torsional Rotation & Minor Axis Flex		
Type of Intermediate Connections	Substantial		

Loading Details			
Ultimate Positive Bending Moment About Y Axis M_y	10	kNm	
Type of Bending	Single Curvature		
Applied Shear Force F_{sd}	0	kN	
Bending Moment at Position of Max Shear M_{y1}	0	kNm	
Shear Force at Position of Max Moment F_{sd1}	0	kN	

Results									
	A	L	L ₁	L ₂	T_{eff}	L_{eff}	A_{eff}	L_{eff}	
Element 1	42.0	19.0	66.7	26.0	250.0	20.0	90.0	20.0	
Element 2	124.0	97.0	66.8	42.0	250.0	65.0	97.0	120.0	
Element 3	206.0	121.0	69.0	66.0	250.0	106.0	121.0		
Element 4	166.0	97.0	67.0	66.0	250.0	166.0	97.0		
Element 5	42.0	16.0	66.0	26.0	250.0	42.0	16.0		
Total	520.0	404.0	60.7		250.0	773.0	413.0		

Effective Length to Breadth Ratio			
Utilisation	0.000		Acceptable
Moment Capacity			
Moment Capacity at Tension Face	$M_{t,y}$	6.91 kNm	
Moment Capacity at Compression Face	$M_{c,y}$	6.91 kNm	
Moment Capacity	$M_{y,red}$	6.91 kNm	
Utilisation	0.000		Acceptable
Buckling Resistance			
Resistant Effective Length Factor	k_y	0.50	
Slenderness Ratio	λ	61.25	
Smaller End Moment	M_{y1}	0.00 kNm	
Larger End Moment	M_{y2}	6.00 kNm	
Ratio of End Moments	β	0.00	
Moment Ratio Factor	C_{my}	0.75	
Form Coefficient	η	0.00	
Yield Moment	M_y	12.27 kNm	
Distortional Lateral Buckling Resistance Moment	M_{Dy}	60.24 kNm	
Factor α_{LT}	α_{LT}	0.25	
Buckling Resistance Moment	$M_{b,y}$	6.91 kNm	
Utilisation	0.000		Acceptable

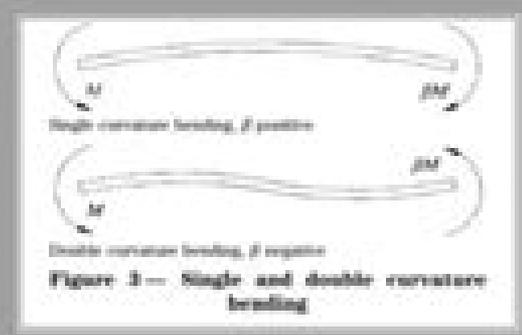
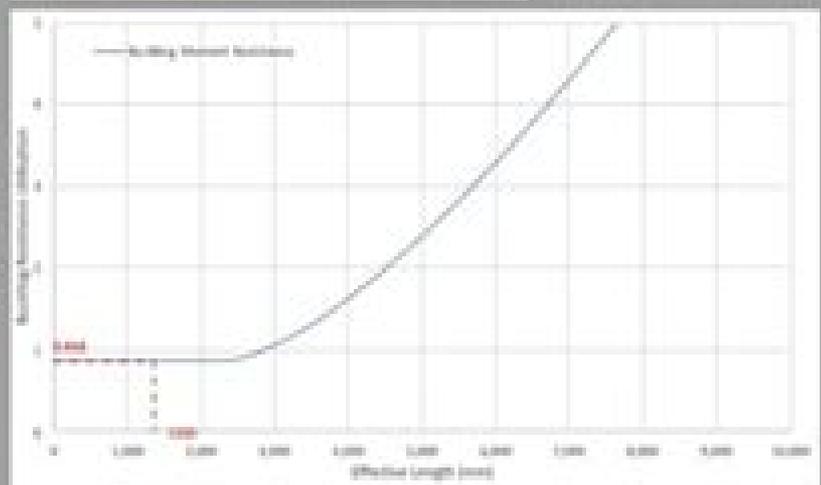
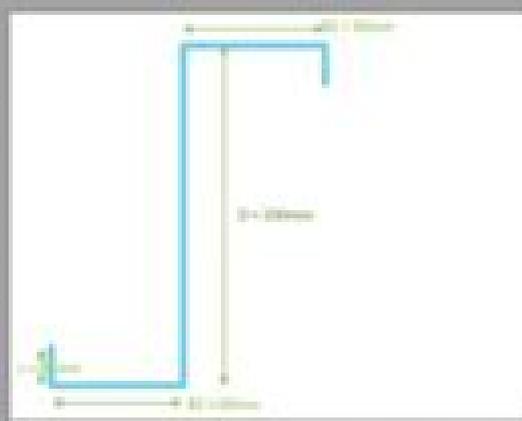


Figure 3— Single and double curvature bending

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JR Anderson



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Recent Trends in Cold-Formed Steel Construction Cheng Yu, 2023-11-04 Recent Trends in Cold Formed Steel Construction Second Edition focuses on the application and use of this important construction material In this updated edition new chapters take on these developments offering updates on cutting edge new technologies and design methods for using cold formed steel as a structural material and providing technical guidance on how to design and build sustainable and energy efficient cold formed steel buildings Sections introduce codes specifications and design methods provide computational analysis of cold formed steel structures examine the structural performance of cold formed steel buildings and review thermal performance acoustic performance fire protection floor vibrations and blast resistance Over the last few years there has been major breakthroughs for cold formed steel design with modular building applications now becoming more widely accepted Other scientific developments include research on system reliability applications AI machine learning and the use of high strength steel as well as new connection methods and changes in DSM codes Addresses building science issues and provides performance solutions for the design of cold formed steel buildings Provides guidance for using next generation design methods computational tools and technologies Edited by an experienced researcher and educator with significant knowledge on new developments in cold formed steel construction Covers new developments such as modular construction machine learning and code developments in Europe Australia and China

Design of Wood Structures-ASD/LRFD Donald Breyer, 2007-01-05 Wood is the major building material in residential structures This work reflects the 2006 Building Code NDS standards and ASCE load standard It is aimed at civil engineers and architects and students

Exploring RISA-3D 14.0 Prof. Sham Tickoo, 2017-02-16 RISA 3D Rapid Interactive Structural Analysis is used for structural analysis and design The tools in RISA 3D are primarily used in structural engineering and they help users to design structural models using both parametric 3D modeling and 2D drafting elements The RISA 3D model comprise of a physical representation of a structure The structural modeling in RISA 3D can be used for structural designing and analysis application The Exploring RISA 3D 14 0 book explains the concepts and principles of RISA 3D through practical examples tutorials and exercises This enables the users to harness the power of structural designing with RISA 3D for their specific use In this book the author emphasizes on physical modeling structural desining creating load cases specifying boundary conditions preparation of project report This book covers the various stages involved in analyzing This book is specially meant for professionals and students in structural engineering civil engineering and allied fields in the building industry Salient Features Detailed explanation of RISA 3D Real world projects given as tutorials Tips and Notes throughout the textbook 200 pages of heavily illustrated text Self Evaluation Tests Review Questions and Exercises at the end of the chapters Table of Contents Chapter 1 Introduction to RISA 3D Chapter 2 Getting Start with RISA 3D Chapter 3 Modeling Chapter 4 Loads Chapter 5 Boundary Conditions Chapter 6 Performing Analysis and Specifying Design Parameters Chapter 7

Viewing Results and Preparing Report Index Design of Wood Structures ASD Donald E. Breyer, Kenneth J. Fridley, Kelly E. Cobeen, 1999 This fourth edition of the text incorporates changes and additions to the major codes concerning the use of wood in building design The focus of the new sections of the text will be on Allowable Stress Design ASD *Proceedings of the 9th International Conference of EURO ASIA Civil Engineering Forum - Volume 1* Ahmad Beng Hong Kueh, ASCE Manuals and Reports on Engineering Practice ,1962 *Transactions of the American Society of Civil Engineers* American Society of Civil Engineers, 2003 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 *Construction Scheduling, Cost Optimization and Management* Hojjat Adeli, Asim Karim, 2003-09-02 Construction Scheduling Cost Optimization and Management presents a general mathematical formula for the scheduling of construction projects Using this formula repetitive and non repetitive tasks work continuity considerations multiple crew strategies and the effects of varying job conditions on the performance of a crew can be modelled L This book presents an entirely new approach to the construction scheduling problem It provides a practical methodology which will be of great benefit to all those involved in construction scheduling and cost optimization including construction engineers highway engineers transportation engineers contractors and architects It will also be useful for researchers and graduates on courses in construction scheduling and planning Urban Transportation Abstracts ,1987 *Professional Memoirs, Corps of Engineers, United States Army and Engineer Department at Large* ,1999 Modern Steel Construction ,2005 **Stamping Quarterly** ,1996 **Sheet Metal Industries** ,1993 Applied Mechanics Reviews ,1996 **Proceedings** ,2004 Compilation of Papers Pertaining to Stability of Metal Structures **Machine Design** ,1988 **Metals Abstracts** ,1996 *Government Reports Announcements & Index* ,1995 *Siviele Ingenieur in Suid-Afrika* ,1990 Automotive Engineering International ,1998

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Table of Contents Cold Formed Steel Design By Spreadsheet Program

1. Understanding the eBook Cold Formed Steel Design By Spreadsheet Program
 - The Rise of Digital Reading Cold Formed Steel Design By Spreadsheet Program
 - Advantages of eBooks Over Traditional Books
2. Identifying Cold Formed Steel Design By Spreadsheet Program
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cold Formed Steel Design By Spreadsheet Program
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cold Formed Steel Design By Spreadsheet Program
 - Personalized Recommendations
 - Cold Formed Steel Design By Spreadsheet Program User Reviews and Ratings
 - Cold Formed Steel Design By Spreadsheet Program and Bestseller Lists
5. Accessing Cold Formed Steel Design By Spreadsheet Program Free and Paid eBooks
 - Cold Formed Steel Design By Spreadsheet Program Public Domain eBooks
 - Cold Formed Steel Design By Spreadsheet Program eBook Subscription Services
 - Cold Formed Steel Design By Spreadsheet Program Budget-Friendly Options

6. Navigating Cold Formed Steel Design By Spreadsheet Program eBook Formats
 - ePub, PDF, MOBI, and More
 - Cold Formed Steel Design By Spreadsheet Program Compatibility with Devices
 - Cold Formed Steel Design By Spreadsheet Program Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cold Formed Steel Design By Spreadsheet Program
 - Highlighting and Note-Taking Cold Formed Steel Design By Spreadsheet Program
 - Interactive Elements Cold Formed Steel Design By Spreadsheet Program
8. Staying Engaged with Cold Formed Steel Design By Spreadsheet Program
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cold Formed Steel Design By Spreadsheet Program
9. Balancing eBooks and Physical Books Cold Formed Steel Design By Spreadsheet Program
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cold Formed Steel Design By Spreadsheet Program
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cold Formed Steel Design By Spreadsheet Program
 - Setting Reading Goals Cold Formed Steel Design By Spreadsheet Program
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cold Formed Steel Design By Spreadsheet Program
 - Fact-Checking eBook Content of Cold Formed Steel Design By Spreadsheet Program
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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