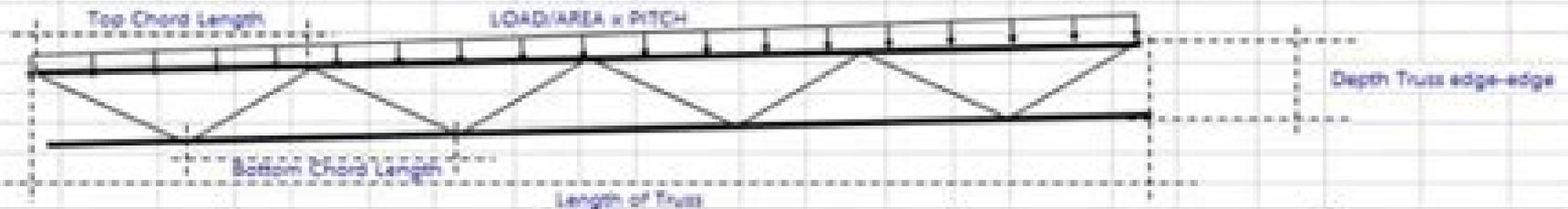


### TYPE 1



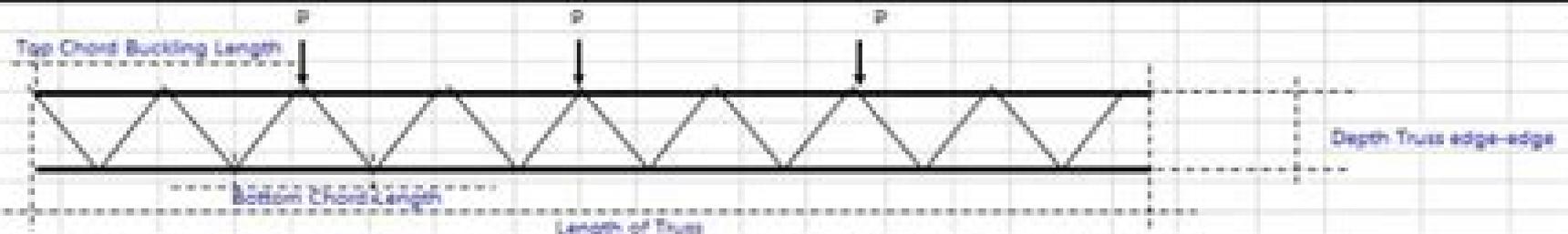
NAME	TRUSS INFO			TOP CHORD			BOTTOM CHORD			DIAGONAL			DEFLECTION				
	SPAN	PITCH	D	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	Actual	Allowable L/360			
ST1	15.00	5.00	1.00	Pipe 101.6	x	4.0	9.65	Pipe 101.6	x	4.0	9.65	Pipe 80.5	x	3.2	4.53	1.08	4.17
	LOAD/AREA 85			Stress Ratio < 1.00 OK	0.83	1.90	12.26	Stress Ratio < 1.00 OK	0.82	1.90	12.26	Stress Ratio < 1.00 OK	0.85	1.25	5.76		
						43.43	3.45			43.43	3.45			61.61	2.03		

### TYPE 2



NAME	TRUSS INFO			TOP CHORD			BOTTOM CHORD			DIAGONAL			DEFLECTION				
	SPAN	PITCH	D	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	Actual	Allowable L/360			
MT1	10.00		1.50	Pipe 165.2	x	4.5	17.87	Pipe 139.8	x	4.5	15.05	Pipe 80.1	x	3.2	6.79	0.91	2.78
	LOAD P 8000			Stress Ratio < 1.00 OK	0.78	5.00	22.71	Stress Ratio < 1.00 OK	0.62	1.25	19.12	Stress Ratio < 1.00 OK	0.89	1.63	8.83		
						87.87	5.68			26.12	4.79			53.47	3.04		

### TYPE 3



NAME	TRUSS INFO			TOP CHORD			BOTTOM CHORD			DIAGONAL			DEFLECTION				
	SPAN	PITCH	D	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	$P_u/P_a$	LKG/r	W.A./r	Actual	Allowable L/360			
MT2	20.00		2.00	Pipe 218.3	x	8.0	41.18	Pipe 218.3	x	8.0	41.18	Pipe 139.8	x	6.0	19.84	2.32	5.56
	LOAD P 8000			Stress Ratio < 1.00 OK	0.93	5.00	52.32	Stress Ratio < 1.00 OK	0.72	2.90	52.32	Stress Ratio < 1.00 OK	0.77	2.36	25.21		
						67.84	7.37			33.92	7.37			49.81	4.74		

# Steel Truss Design Spreadsheet

**Elham Maghsoudi Nia, Lloyd  
Ling, Mokhtar Awang, Seyed Sattar  
Emamian**

## **Steel Truss Design Spreadsheet:**

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 Modern Steel Railway Bridges* John F. Unsworth, 2016-04-19 Perhaps the first book on this topic in more than 50 years Design of Modern Steel Railway Bridges focuses not only on new steel superstructures but also outlines principles and methods that are useful for the maintenance and rehabilitation of existing steel railway bridges It complements the recommended practices of the American Railway Engineering and Maintenance of way Association AREMA in particular Chapter 15 Steel Structures in AREMA s Manual for Railway Engineering MRE The book has been carefully designed to remain valid through many editions of the MRE After covering the basics the author examines the methods for analysis and design of modern steel railway bridges He details the history of steel railway bridges in the development of transportation systems discusses modern materials and presents an extensive treatment of railway bridge loads and moving load analysis He then outlines the design of steel structural members and connections in accordance with AREMA recommended practice demonstrating the concepts with worked examples Topics include A history of iron and steel railway bridges Engineering properties of structural steel typically used in modern steel railway bridge design and fabrication Planning and preliminary design Loads and forces on railway superstructures Criteria for the maximum effects from moving loads and their use in developing design live loads Design of axial and flexural members Combinations of forces on steel railway superstructures Copiously illustrated with more than 300 figures and charts the book presents a clear picture of the importance of railway bridges in the national transportation system A practical reference and learning tool it provides a fundamental understanding of AREMA

recommended practice that enables more effective design      *Computer-Aided Structural Modeling (CASM)* David Wickersheimer, Carl Roth, Gene McDermott, 1996      *Advances in Civil Engineering Materials* Elham Maghsoudi Nia, Lloyd Ling, Mokhtar Awang, Seyed Sattar Emamian, 2023-01-01 This book presents selected articles from the 6th International Conference on Architecture and Civil Engineering 2022 ICACE 2022 held in Malaysia Written by leading researchers and industry professionals the papers highlight recent advances and addresses current issues in the fields of civil engineering and architecture      **User's Guide** ,1994      Modern Steel Construction ,2005      **Tutorial Guide** ,1994      *Building Education and Research* Jay Yang, Weilen P. Chang, 2005-08-17 Building Education and Research explores this new active area of research in a series of papers by internationally acclaimed experts presented at the CIB W89 International Conference on Building Education and Research held in July 1998 BEAR 98 in Brisbane Australia Sponsored in collaboration jointly by the Queensland University of Technology the Conseil International du Batiment CIB and the Australian Institute of Building AIB the conference was organised around the theme Building Research and Education Beyond 2000 and looks at the factors that are changing the requirements of building education and research economic and technological concerns environmental concerns government policies Industries demands re evaluation of community expectations      **Concrete International** ,1991      *AISE Steel Technology* ,2002      The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05      *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      **Design of Wood Structures** Donald E. Breyer, 1993 Introduces engineers technologists and architects to the design of wood structures serving either as a text for a course in timber design or as a reference for self study A large number of practical design examples are provided throughout This edition 2nd 1988 integrates the new wood design criteria published in the 1991 National Design Specification for Wood Construction and the new seismic design requirements which are included in the 1988 and 1991 editions of the Uniform Building Code Annotation copyright by Book News Inc Portland OR      **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      Design Manual for Strengthening of Continuous-span Composite Bridges F. W. Klaiber, 1993 The need for upgrading a large number of understrength bridges in the United States has been well documented in the literature This manual presents two methods for strengthening continuous span composite bridges post tensioning of the positive moment regions of the bridge stringers and the addition of superimposed trusses at the piers The use of these two systems is an efficient method of reducing flexural overstresses in undercapacity bridges Before strengthening a given bridge however other deficiencies inadequate shear connection fatigue problems extensive corrosion

should be addressed Since continuous span composite bridges are indeterminant structures there is longitudinal and transverse distribution of the strengthening axial forces and moments This manual basically provides the engineer with a procedure for determining the distribution of strengthening forces and moments throughout the bridge As a result of the longitudinal and transverse force distribution the design methodology presented in this manual for continuous span composite bridges is extremely complex To simplify the procedure a spreadsheet has been developed for use by practicing engineers This design aid greatly simplifies the design of a strengthening system for a given bridge in that it eliminates numerous tedious hand calculations computes the required force and moment fractions and performs the necessary iterations for determining the required strengthening forces The force and moment distribution fraction formulas developed in this manual are primarily for the Iowa DOT V12 and V14 three span four stringer bridges These formulas may be used on other bridges if they are within the limits stated in this manual Use of the distribution fraction formulas for bridges not within the stated limits is not recommended

**Wood Design Focus** ,1996    *Design News* ,1988    **Software Abstracts for Engineers** ,1988    *Mechanics of Materials* Roy R. Craig,1996-02-16 This book emphasizes that all proems in mechanics of deformable bodies involve three key ingredients equilibrium constitutive behavior of materials and geometry of deformation    **The Structural Engineer** ,2000

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