

OLD SYMBOL	OLD ILLUSTRATED USE	DESCRIPTION	EXAMPLE	NEW SYMBOL	NEW ILLUSTRATED USE
WF	24 WF 76	W-SHAPE (WIDE FLANGE)		W	W 24 x 76
BP	14 BP 73	BEARING PILE		HP	HP 14 x 73
I	15 I 42.9	S-SHAPE (AMERICAN STD I-BEAM)		S	S 15 x 42.9
	9  13.4	C-SHAPE (AMERICAN STD CHANNEL)		C	C9 x 13.4
M	8X8 M 34.3	M-SHAPE (MISC SHAPES OTHER THAN W, BP, S, & C)		M	M8 x 34.3
M	8 M 17			M	M8 x 17
Jr	7 Jr. 5.5			M	M7 x 5.5
	12 X 4  44.5	MC-SHAPE (CHANNELS OTHER THAN AMERICAN STD)		MC	MC 12 x 45
Jr 	10 Jr  8A				MC 12 x 12.6
ANGLES:					
	 3 x 3 x 1/4	EQUAL LEG		L	L 3 x 3 x 1/4
	 7 x 4 x 1/2	UN-EQUAL LEG		L	L 7 x 4 x 1/2
TEES, STRUCTURAL:					
ST	ST 5 WF 10.5	CUT FROM W-SHAPE		WT	WT 12 x 38
		CUT FROM S-SHAPE		ST	ST 12 x 38
		CUT FROM M-SHAPE		MT	MT 12 x 38
PL	PL 18 x 1/2 x 2'-6"	PLATE		PL	PL 1/2 x 18" x 30"
BAR	BAR 2 1/2 x 1/4	FLAT BAR		BAR	BAR 2 1/2 x 1/4
	 6+	PIPE, STRUCTURAL			PIPE 4 STD PIPE 4X - STRG PIPE 4 XX - STRG

Figure 7-1 — Structural shapes and designations.

Sheet Metal Drawing Symbols

Frank R. Spellman



Sheet Metal Drawing Symbols:

Sheet Metal Forming Processes and Die Design Vukota Boljanovic, 2004 This book is a complete modern guide to sheet metal forming processes and die design still the most commonly used methodology for the mass production manufacture of aircraft automobiles and complex high precision parts It illustrates several different approaches to this intricate field by taking the reader through the hows and whys of product analysis as well as the techniques for blanking punching bending deep drawing stretching material economy strip design movement of metal during stamping and tooling

Manual of Engineering Drawing Colin H. Simmons, Dennis E. Maguire, 2009-03-24 The Manual of Engineering Drawing has long been recognised as a guide for practicing and student engineers to producing engineering drawings and annotated 3D models that comply with the latest British and ISO Standards of Technical Product Specifications and Documentation This new edition has been updated to include the requirements of BS8888 2008 and the relevant ISO Standards and is ideal for International readership it includes a guide to the fundamental differences between the ISO and ASME Standards relating to Technical Product Specification and Documentation Equally applicable to CAD and manual drawing it includes the latest development in 3D annotation and the specification of surface texture The Duality Principle is introduced as this important concept is still very relevant in the new world of 3D Technical Product Specification Written by members of BSI and ISO committees and a former college lecturer the Manual of Engineering Drawing combines up to the minute technical information with clear readable explanations and numerous diagrams and traditional geometrical construction techniques rarely taught in schools and colleges This approach makes this manual an ideal companion for students studying vocational courses in Technical Product Specification undergraduates studying engineering or product design and any budding engineer beginning a career in design The comprehensive scope of this new edition encompasses topics such as orthographic and pictorial projections dimensional geometrical and surface tolerancing 3D annotation and the duality principle along with numerous examples of electrical and hydraulic diagrams with symbols and applications of cams bearings welding and adhesives The definitive guide to draughting to the latest ISO and ASME standards An essential reference for engineers and students involved in design engineering and product design Written by two ISO committee members and practising engineers

Progressive Problems in Mechanical Drawing Harry Einsley Wood, 1927 **A Manual of Engineering Drawing for Students and Draftsmen** Thomas Ewing French, 1929 *Sheet Metal Workers Journal*, 1925 **SOLIDWORKS 2025 Basic Tools** Paul Tran, Starts at an introductory level designed for beginners

Comprehensive coverage of beginning tools and techniques Uses a step by step tutorial approach with real world projects Covers the creation of parts assemblies and drawings Features a quick reference guide and a Certified SOLIDWORKS Associate practice exam The first book of a three book series SOLIDWORKS 2025 Basic Tools is the first book in a three part series It introduces new users to the SOLIDWORKS interface SOLIDWORKS tools and basic modeling techniques It provides

you with a strong understanding of SOLIDWORKS and covers the creation of parts assemblies and drawings Every lesson and exercise in this book was created based on real world projects Each of these projects has been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step **Blueprint Reading and Sketching** United States. Bureau of Naval Personnel,1963 **SOLIDWORKS**

2019 Basic Tools Paul Tran, SOLIDWORKS 2019 Basic Tools is the first book in a three part series It introduces new users to the SOLIDWORKS interface SOLIDWORKS tools and basic modeling techniques It provides you with a strong understanding of SOLIDWORKS and covers the creation of parts assemblies and drawings Every lesson and exercise in this book was created based on real world projects Each of these projects has been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step

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Spellman's Standard Handbook for Wastewater Operators Frank R. Spellman,2010-08-30 Compact and practical Spellman s Standard Handbook for Wastewater Operators Volume III Advanced Level Second Edition rounds out the revision of this three volume set Together these three volumes prepare operators to obtain licensure and operate wastewater treatment plants properly This volume presents applied math and chemistry by way of rea **Mechanical Drawing for High Schools** Thomas Ewing French,Carl Lars Svensen,1927 **Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016** Paul Munford,Paul Normand,2016-01-05 Your real world introduction to mechanical design with

Autodesk Inventor 2016 Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 is a complete real world reference and tutorial for those learning this mechanical design software With straightforward explanations and practical tutorials this guide brings you up to speed with Inventor in the context of real world workflows and environments You ll begin designing right away as you become acquainted with the interface and conventions and then move into more complex projects as you learn sketching modeling assemblies weldment design functional design documentation visualization simulation and analysis and much more Detailed discussions are reinforced with step by step tutorials and the companion website provides downloadable project files that allow you to compare your work to the pros Whether you re teaching yourself teaching a class or preparing for the Inventor certification exam this is the guide you need to quickly gain confidence and real world ability Inventor s 2D and 3D design features integrate with process automation tools to help manufacturers create manage and share data This detailed guide shows you the ins and outs of all aspects of the program so you can jump right in and start designing with confidence Sketch model and edit parts then use them to build assemblies Create exploded views flat sheet metal patterns and more Boost productivity with data exchange and visualization tools Perform simulations and stress analysis before the prototyping stage This complete reference includes topics not covered elsewhere including large assemblies integrating other CAD data effective modeling by industry effective data sharing and more For a comprehensive real world guide to Inventor from a professional perspective Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 is the easy to follow hands on training you ve been looking for

Electronic Technology, 1960 **SOLIDWORKS 2018 Basic Tools** Paul Tran, 2017-10 SOLIDWORKS 2018 Basic Tools is the first book in a three part series It introduces new users to the SOLIDWORKS interface SOLIDWORKS tools and basic modeling techniques It provides you with a strong understanding of SOLIDWORKS and covers the creation of parts assemblies and drawings Every lesson and exercise in this book was created based on real world projects Each of these projects has been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step *Special Regulations* United States. Department of the Army, 1954 **SOLIDWORKS**

2020 Basic Tools Paul Tran, 2019-12 SOLIDWORKS 2020 Basic Tools is the first book in a three part series It introduces new users to the SOLIDWORKS interface SOLIDWORKS tools and basic modeling techniques It provides you with a strong understanding of SOLIDWORKS and covers the creation of parts assemblies and drawings Every lesson and exercise in this book was created based on real world projects Each of these projects has been broken down and developed into easy and comprehensible steps Furthermore at the end of every chapter there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that

in order to understand SOLIDWORKS inside and out you should create everything from the beginning and take it step by step

Mechanical Drawing, 1920 *SOLIDWORKS 2020 Reference Guide* David Planchard, 2019-12 A comprehensive reference book for SOLIDWORKS 2020 Contains 260 plus standalone tutorials Starts with a basic overview of SOLIDWORKS 2020 and its new features Tutorials are written for each topic with new and intermediate users in mind Includes access to each tutorial's initial and final state Contains a chapter introducing you to 3D printing The SOLIDWORKS 2020 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2020 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2020 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2020 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 260 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to complement the Online Tutorials and Online Help contained in SOLIDWORKS 2020 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model *Industrial Arts & Vocational Education*, 1959 **Geometric Dimensioning and Tolerancing** James D. Meadows, 2017-10-19 Explaining the symbology of dimensioning and tolerancing and introducing a step by step system for geometric definition this book provides examples for the application of geometric controls The author breaks down the language of geometric product definition into a series of steps that consist of significant questions to be asked at any point in the product definition He addresses functional requirements and manufacturing techniques measurement inspection and gaging procedures The book illustrates how symbology is best utilized in what order it should be applied and how each

geometric control anticipates integrates and complements all other geometric controls on a part and in an assembly

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