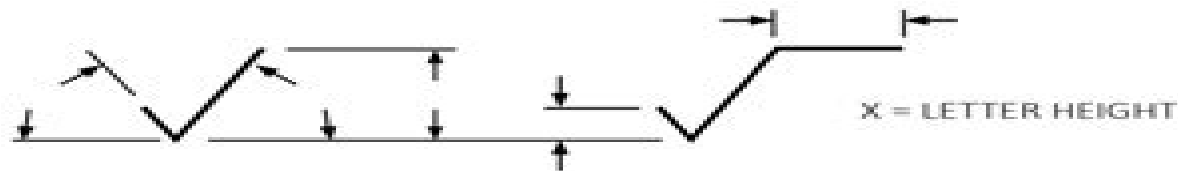


ISO SURFACE FINISH SYMBOLS AND CALLOUTS

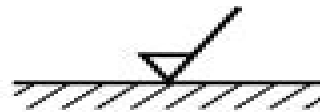


REMOVAL OF MATERIAL

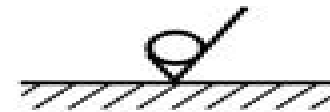
SURFACE MAY BE PRODUCED
BY ANY METHOD



MATERIAL REMOVAL
REQUIRED



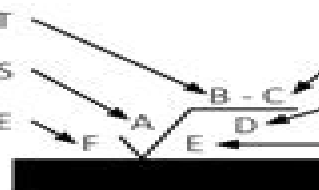
MATERIAL REMOVAL
PROHIBITED



MAXIMUM WAVINESS HEIGHT

ROUGHNESS AVERAGE VALUES

MACHINING ALLOWANCE



MAXIMUM WAVINESS
SPACING

ROUGHNESS SAMPLING
LENGTH

LAY SYMBOL

EXAMPLE

63
32

.002-4
┴ .05

BASIC SURFACE TEXTURE SYMBOL



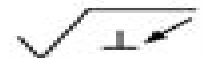
MAXIMUM WAVINESS SPACING
RATING (C). SPECIFY IN INCHES OR
MILLIMETERS, HORIZONTAL BAR
ADDED TO BASIC SYMBOL



ROUGHNESS AVERAGE VALUES (A).
SPECIFY IN MICROINCHES,
MICROMETERS, OR ROUGHNESS
GRADE NUMBERS



LAY SYMBOL (E)



MAXIMUM AND MINIMUM ROUGHNESS
AVERAGE VALUES (A), SPECIFY IN
MICROINCHES, MICROMETERS, OR
ROUGHNESS GRADE NUMBERS.



ROUGHNESS SAMPLING LENGTH
OR CUTOFF RATING (D). WHEN NO
VALUE IS SHOWN USE .03 INCH (0.8
MILLIMETERS).



MAXIMUM WAVINESS HEIGHT RATING (B)
SPECIFY IN INCHES OR MILLIMETERS.
HORIZONTAL BAR ADDED TO BASIC
SYMBOL.



MACHINING ALLOWANCE (F).
SPECIFY IN INCHES OR
MILLIMETERS.



NOTE: WAVINESS IS NOT USED IN ISO STANDARDS.

Mechanical Drawing Standards Surface Finish Symbols

S Ben Porath



Mechanical Drawing Standards Surface Finish Symbols:

Technical Drawing: Reviewed from ISO Standards Ir. Muttaqin Rahmat Pangaribawa, S.T., M.Eng., This Book offers a clear and structured introduction to technical drawing progressing from basic principles to advanced applications It covers fundamental techniques such as orthographic projection scaling and tolerancing with precision Emphasis is placed on ISO standards highlighting their role in establishing global benchmarks and ensuring quality Practical skills are developed through dimensioning schematic drawing and manufacturing detail exercises The use of traditional drafting tools and modern CAD methods is addressed Islamic perspectives are thoughtfully integrated into discussions on ethics and standardization Readers are guided toward producing accurate legible and compliant engineering drawings Key practices and real world applications are underscored throughout Summaries exercises and a comprehensive glossary reinforce learning This text is ideal for students lecturers and practitioners striving for professional mastery **Mechanical Drawing**

,1920 **Handbook of Optomechanical Engineering** Anees Ahmad,2018-12-07 Good optical design is not in itself adequate for optimum performance of optical systems The mechanical design of the optics and associated support structures is every bit as important as the optics themselves Optomechanical engineering plays an increasingly important role in the success of new laser systems space telescopes and instruments biomedical and optical communication equipment imaging entertainment systems and more This is the first handbook on the subject of optomechanical engineering a subject that has become very important in the area of optics during the last decade Covering all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems this handbook is comprehensive The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive handbook The text consists of ten chapters each authored by a world renowned expert This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering Some of the current research trends that are covered include A.S.M.E. Mechanical Catalog and Directory ,1955 **Notes on Mechanical Drawing** Horace Pugh Fry,1906 Department Of Defense Index of Specifications and Standards Numerical Canceled Listing (APPENDIX) Part IV September 2005 ,

Mechanical Catalog ,1918 *Blueprint Reading And Sketching Including Machine Drawings; Piping Systems; Electrical and Electronics Prints; Architectural and Structural Steel Drawings* , Chapter 1 BLUEPRINTS When you have read and understood this chapter you should be able to answer the following learning objectives Describe blueprints and how they are produced Identify the information contained in blueprints Explain the proper filing of blueprints Blueprints prints are copies of mechanical or other types of technical drawings The term blueprint reading means interpreting ideas expressed by others on drawings whether or not the drawings are actually blueprints Drawing or sketching is the universal language used by

engineers technicians and skilled craftsmen Drawings need to convey all the necessary information to the person who will make or assemble the object in the drawing Blueprints show the construction details of parts machines ships aircraft buildings bridges roads and so forth BLUEPRINT PRODUCTION Original drawings are drawn or traced directly on translucent tracing paper or cloth using black waterproof India ink a pencil or computer aided drafting CAD systems The original drawing is a tracing or master copy These copies are rarely if ever sent to a shop or site Instead copies of the tracings are given to persons or offices where needed Tracings that are properly handled and stored will last indefinitely The term blueprint is used loosely to describe copies of original drawings or tracings One of the first processes developed to duplicate tracings produced white lines on a blue background hence the term blueprint Today however other methods produce prints of different colors The colors may be brown black gray or maroon The differences are in the types of paper and developing processes used A patented paper identified as BW paper produces prints with black lines on a white background The diazo or ammonia process produces prints with either black blue or maroon lines on a white background Another type of duplicating process rarely used to reproduce working drawings is the photostatic process in which a large camera reduces or enlarges a tracing or drawing The photostat has white lines on a dark background Businesses use this process to incorporate reduced size drawings into reports or records The standards and procedures prescribed for military drawings and blueprints are stated in military standards MIL STD and American National Standards Institute ANSI standards The Department of Defense Index of Specifications and Standards lists these standards it is issued on 31 July of each year The following list contains common MIL STD and ANSI standards listed by number and title that concern engineering drawings and blueprints

Questions on Introductory Mechanical Drawing Clarence Ellsworth Townsend, Stephen Farrell Cleary, 1929 **Index of Specifications and Standards**, 2005 Fundamentals of Modern Manufacturing Mikell P. Groover, 2016-01-11 Fundamentals of Modern Manufacturing Materials Processes and Systems 6th Edition is designed for a first course or two course sequence in Manufacturing at the junior level in Mechanical Industrial and Manufacturing Engineering curricula As in preceding editions the author's objective is to provide a treatment of manufacturing that is modern and quantitative The book's modern approach is based on balanced coverage of the basic engineering materials the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies The quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end of chapter problems **Mechanical Catalog**, 1953 *Automotive Industries, the Automobile*, 1926 Manufacturing Engineering and Management, 1960 **Self-taught Mechanical Drawing and Elementary Machine Design ...** F. L. Sylvester, 1910 **Universal Dictionary of Mechanical Drawing** George Herbert Follows, 1906 *Machine Drawing* Carl Lars Svensen, 1921 Machine Drawing Problems Edward Berg, George Elleson, 1921 Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering, 1884

Mechanical Drawing ,1980 A textbook introducing the basic theory techniques and uses of drafting for industrial arts and vocational high school students

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