

Received From Professor Dennis R. Short

- 1) Dimensioning and Tolerance for Quality Production, Merhyle F. Spotts.
- 2) Engineering Graphics and *AutoCAD* Release 13, James D. Bethune.
- 3) Experiences in Visual Thinking, Robert H. McKim; 2nd edition, 1980.
- 4) Interpreting Engineering Drawings, C. Jensen, R. Hines; 3rd edition, 1984.
- 5) Interpreting Engineering Drawings, C. Jensen, R. Hines; 4th edition, 1989.
- 6) Computer Graphics Annual Conference
- 7) ACM Siggraph (special interest group on computer graphics of the Association for Computing Machinery)
- 8) Conference Proceedings — vol. 24, no. 4 (1990); vol. 26, no. 2-3 (1992); vol. 27 (1993); vol. 29-34 (1995-2000); vol. 36 (2002)



Special Collections

Engineering Graphics and Descriptive Geometry Collection

Box 1

Engineering Graphics and Descriptive Geometry Collection
Box 1

1. Folder 62 D B
 - a. Paper No. 53 - A-135 American Society of Mechanical Engineers Annual Meeting. New York, 11-29-53 to 12-4-53
Simplified Drafting Practices – College Viewpoint by Prof. Ralph S. Paffenbarger, Ch. Dept. of Engr. Drawing. Ohio State University
 - b. *Teaching the Basic Fundamentals of Drawing by Means of Freehand Drawing.* By H. Dale Walraven, University of Illinois, Chicago
Typewritten Manuscript of an Experimental study.
 - c. *New Lighting Developments and their application to Drafting Rooms* by Russell C. Putnam, Assoc. Prof., Case School of Applied Science.
Presented at Joint Meeting, Electrical and Engineering Drawing Divisions, SPEE meeting, St. Louis, 6-20-46 to 6-23-46 Pages 389- 402
 - d. *Preliminary Report on Survey in Connection with The Study of Minimum Standards for Basic Courses in Engineering Drawing, May 1947*
Typewritten manuscript.
 - e. *What Training in Graphics Does Industry Require from College Men.* By F. C. Linn, Turbine Division Schenectady. Presented at same meeting as 1c. Reprint from unknown magazine, pages 7-10.
 - f. *Glossary of Terms Relating to Mechanical Fasteners: An interim report for use by the industry.* ASME, Nov. 1949, 38 Pages typewritten.
2. Folder 62 G 6
 - a. *When Foreman Deal With Worker* By Lillian L. Gilbreth & Alice Rice Cook, 1947.
 - b. *Freedom Within Management* by Wm. B. Given, President, American Brake Shoe Company, Reprint from Harvard Business Review, Summer 1946.
 - c. *The Second Mile: A Resurvey 1944.* Engineers' Council for Professional Development, Pamphlet.
 - d. *The Infinite Sphere*, by Albert E. Sanderson, Associate Professor of Drawing, Northwestern University. Journal of Engineering Education, April 1952. Page s402 – 406
 - e. *Professional Torchbearers* by N. W. Dougherty, Dean of Engineering The University of Tennessee and President of ASEE. Mimeographed document of 10 pages.
 - f. *Teaching Engineering Graphics Effectively for Today and Tomorrow*, by Frank A. Heacock, Princeton University. Mimeographed document, 8 pages.
 - g. *The Role of Engineering Mechanics in Engineering Education*, by Paul F. Chenea, Purdue University, Mimeographed document, 12 pages.
3. Folder Old Misc.
 - a. Machine Design Department, Mechanism, Graphical Differentiation, Problem M-D-5.9 Purdue University
 - b. Four sheets of graph paper with drawings
 - c. Work Sheet 1, Empirical Equations, November, 1954 – Second Engineering Graphics Conference, Purdue University.
 - d. Work Sheet 1, Analogues, November 1954., SEGC, PU
 - e. Work Sheet 2, Analogues, November 1954, SEGC, PU
 - f. Work Sheet 3, Analogues, November 954, SEGC, PU
 - g. Work Sheet 4, Analogues, November 954, SEGC, PU

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- h. Work Sheet No. 1, Sketching, November 1954, SEGC, PU
 - i. Work Sheet No. 2, Sketching, November 1954, SEGC, PU
 - j. Work Sheet No. 3, Sketching, November 1954, SEGC, PU
 - k. Bibliography, Sketching, Analogues, and related material, SEGC, PU.
 - l. Illustration Sheet No. 1, Monographs, November 1854, SEGC, PU.
 - m. Illustration Sheet No. 2, Monographs, November 1854, SEGC, PU.
 - n. Illustration Sheet No. 3, Monographs, November 1854, SEGC, PU.
 - o. Logarithmic Plate Chart, 11"x17"
 - p. Work Sheet No. 1, Empirical Equations, November, 1954, SEGC, PU.
 - q. Key – Problem sheet 461120.1 Lesson 1H by Botkin.
 - r. Key – Solution Lab 2, Botkin
 - s. Key – Solution Lab 3, Botkin, K. E.
4. Folder 36A10 – Course packet for CE 110 and CE 11 circa 1953.
5. Minutes of Engineering Drawing Staff Meetings, 1951-54 – Porsch. Some Loose papers.
6. Folder 62 D 4 Descriptive Geometry, Pencil Note "Old Papers"
- a. Rejected manuscript entitled "Graphics Applied to Problem Solving" by Prof. Porsch, Letter dated 18 March, 1955.
 - b. *Some Relationships Between Descriptive Geometry and Mechanics and Descriptive Geometry and Mathematics* by W. Howard Taylor. Mimeographed copy of a paper presented at the Austin, June 1948 meeting of the drawing section of ASEE. 8 pages plus figures.
 - c. *What is fundamental in Descriptive Geometry* by B. Leighton Weelman, Worcester Polytechnic Institute. Copy of paper presented before the Engineering Drawing Division of ASEE, Rensselaer Polytechnic Institute, June 22, 1949.
 - d. Combined Engineering Drawing and Descriptive Geometry by Carson P. Buck, Notre Dame. Mimeographed paper 13 pages.
 - e. Non Coplanar Concurrent Forces: Descriptive geometry methods for finding the stresses in the three legs of a tripod structure supporting a load as shown. Mimeographed paper, 5 pages, dated 6110148.
 - f. Reprint from Journal of Engineering Education, New Series, Vol. XIX, No. 5, 1929 A *Short History of Descriptive Geometry* by Frederic Goodcon Higbee, University of Iowa. Pages 500-511.
 - g. Selected Papers of the Summer School for Engineering Teachers, Historical Papers of the Sessions on Civil Engineering and Engineering Drawing and Descriptive Geometry. The Society for the Promotion of Engineering Education, No. 15, April 1951.
7. Folder Old Misc(2).
- a. Letter dated 22 May 1967 from Prof. W, J, Luzadder to Dr. G. A. Leonards.
 - b. Letter dated 6 Feb 1970 to Messrs. Kolb, Sadowski and White RE *Long-Range Role of Engineering Graphics* from K. E. Botkin
 - c. Engineering Graphics Staff Rooster and course assignments dated 5 Feb 1970
 - d. Misc. graph paper.
8. Folder 62 P 8 – Pictorial
- a. Article entitled *Simulated Perspective Sketching* by Peter F. Kranz from Machine Design, August 1954.

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- b. Article entitled *Fixed-Angle Photos Simplify Explosion Sketches* by R. B. Wittman from American Machinist, January 3, 1946.
 - c. Article entitled *Simplified Three-dimensional Drawing* by W. E. Walters, from Machine Design, January, 1947.
 - d. Article entitled *Drawing Three-Dimensional Assemblies* by W. E. Walters from Machine Design, October 1947.
 - e. Article entitled *New Magic in Old Lines* by Achille Presutti from proceedings of New England Section of ASEE, 5 Oct., 1946.
 - f. Reprint form the Journal of Engineering Education, Vol. 34, No. 3 November, 1943. *A New Method of Axonometric Projection* by R. P. Hoelscher.
 - g. Article entitled *A New Method of Axonometric Projection* by D. Maksymiuk from ASEE Journal June 1947.
 - h. Reprint Booklet from Journal of the Optical Society of America Vol. 31, No. 2, pp. 124-129, February 1941. *The Shape of Stereoscopic Images* by John T. Rule. Includes Polaroid Vectographs that are no longer useable/readable in separate envelope.
9. Folder 62 T 4 Teaching
- a. Article entitled *T-Square Page*, March 1947
 - b. Article entitled *The T-Square Page*, form The Journal of Engineering Education, Vol. 40 – No. 10.
 - c. Article entitled *The T-Square Page* from Journal of Engineering Education, Oct., 1954.
 - d. Letter Dated November 1948 to Members of the Instructional Staff from President Frederick L. Hovde concerning Purdue Rating Scale for Instructor. This is an early version of the cafeteria form now used.
 - e. Report titled Report of the Teaching Techniques Committee, Division of Engineering Graphics, ASEE, June 1959. 16 pages.
 - f. AAUP and ASME Study of College Teaching, Purdue University, 1954-55, 41 pages.
 - g. Article entitled *Determining Teaching Objectives* by Frank Kerekes, Iowa State College, from Journal of Engineering Education, Mar. 1952 pp. 323-330
 - h. Article entitled Education in Action by W. L. Everitt, Dean, College of Engineering, University of Illinois, from Journal of Engineering Education, Dec 1951.
 - i. Carbon copy of paper titled "*Gear only if Known*". Four pages, Arthur and date unknown.
 - j. Memo from J. H. Porsch to All Instructors of Engineering Drawing and Descriptive Geometry dated 15 Dec. 1947. Contains the body of an article entitled *So You Have Decided to be a Drawing Teacher* by H. C. Spencer and other material.
 - k. Reprint form Chemical Engineering April 1947 entitled *New Proverbs for Young Engineers*. By Phillip W. Swain.
 - l. Copy of *The Purdue Rating Scale for Instructors* by G. C. Brandenburg and H. H. Remmers. Date unknown.
 - m. Document entitled The Purdue Rating Scale for Administrators by H. H. Remmers and R. L. Hobson. 1947.
 - n. Pamphlet entitled How Teach and Learn in College? [sic] Experimental Edition, 1947. This is a rating scale for instructors.
 - o. Memo to Instructional Staff, Schools of Engineering, dated Nov. 13, 1950 RE Advisory Committee of Audio-Visual Aids.
 - p. Minutes of G. E. Meeting December 6, 1950 of panel discussion presented by Committee for the Improvement of Teaching Standards.
 - q. Memo from W. J. Luzadder to Members of ASEE Teaching Committee dated 14 February 1951. RE: Recent Articles of Engineering Education.
 - r. Memo dated 1 March 1951 from Professor H. A. Boles in response to Letter from J. H. Porsch of 12 February 1951 – Evidence of Good Teaching, Announcement of open meeting.
 - s. Paper entitled *Effective Teaching*, a condensation of talk delivered 10 November 1949 by Dr. B. L. Dodds. GEN-491215-11
 - t. Research Report No. 494 dated September 1949. Classroom Factors: How the Teachers Views Them. By D. N. Elliott and H. H. Remmers. 20 pages.

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10. Folder 62 D 6 Dimensioning
 - a. Article entitled *How to Measure Surface Roughness of Castings* by G. Hobman from American Machinist, July 3, 1947.
 - b. Article entitled *Shall We Cling to the Inch* by Fred H. Colvin from American Machinist, March 13, 1947.
 - c. Article entitled *Surface-Quality Control Does Pay* by James A Broadston from American Machinist, April 10, 1947.
 - d. Article entitled *Dimensions and Tolerances: Fundamental Principles* by Marhyle E. Spotts from Product Engineering, January 1947.
 - e. Paper entitled Modem Dimension Practices by S. B. Elrod Purdue University. Circa 1946/147
 - f. Class materials book for GE 121 Engineering Drawing, Department of General Engineering, Purdue University. Includes mimeographed and handwritten lecture notes from W. J. Luzadder. Approx. 26 pages, saddle stapled.
 - g. *A Laboratory Manual for Engineering Drawing* by William Fontaine. Classroom manual from Central YMCA College, Chicago.
 - h. Letter dated October 28, 1947 from H. D. Campbell to Prof. H. A. Bolz, Purdue University. Subj: Machine Drafting Data sheets.
 - i. *Practical Dimensioning* by E. C. Helmke, Gisholt Machine Company, Madison, Wisconsin. Form 1160 IOM652 Third Printing. Approx. 30-40 pages.
 - j. Article reprint from SAE Journal entitled *Drafting Practice on Threshold of More Realistic Tolerancing* by P. G. Belitos. August 1954.
 - k. Memo dated April 22, 1953 from Prof. S. B. Elrod to SAE Aeronautical Drafting Committee S-1. RE: Definition of the word BASIC
 - l. Preliminary Report of SAE Joint Sub-committee on Geometrical and Positional Tolerances as Proposed in BS 308. June 27, 19—
 - m. Article from Engineering News-Record of February 8, 1951 entitled "Careless dimensioning fells a concrete wall.
 - n. Unconfirmed minutes of meeting No. 27 of Committee S-1, Aeronautical Drafting Manual of the SAE Special Aircraft Projects Division. February 14-15, 1951, Indianapolis, Indiana.
 - o. Memo from Wright Aeronautical Corporation, Wood-Ridge, NJ to Members of S-1 subcommittee RE: Comments – Project No. 85
 - p. Letter from H. McFarland to Members of Committee S-1 dated Feb 7, 1951 RE: Project 83 – Simplified Drafting Practices.
 - q. Letter and attachments dated January 13, 1951 from Pratt & Whitney Aircraft to Members of Committee S-1 RE: Project #84 Zone Tolerancing of Contours.
 - r. Additional copy of 10e
 - s. Article entitled Misinformation Please by Josiah Davies from American Machinist dated April 10, 1947.
 - t. Article entitled Surface Roughness, Waviness and Lay – 1 from American Machinist dated April 10, 1947.
 - u. Preprint of a paper entitled *Decimalism – Its Use In The Aeronautical Industry and Its Relation to Education*. By P. J. Hayes, Jr. American Airlines for ASEE June 20, 1947.
 - v. Paper entitled Methods For Presenting Dimensioning by P. E. Machinova, The Ohio State University. 12 pages no date. Circa 1946/147
11. Folder Lose material
 - a. Visitors map of Chicago dated 1947.
 - b. Article entitled *Engineering Perspective Drawing: Presenting engineering information in three dimensions* by John F. Lane from Machine Design, January 1953.
 - c. *Work Pan for Technical Drawing Problems – Series 2* by H. C. Spencer and H. E. Grant. References to Third Edition of Technical Drawing (1949) by F. E. Giesecke et al. 24 pages.
 - d. Course booklet for Engineering Drawing GE 11, Purdue University Includes instructor notes and class assignment schedule from 1952-53.
 - e. Course booklet for Engineering Drawing GE 121 Purdue University. Circa 1950-55.

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Box 2

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Box 2

1. Mechanical Drawing (Linnus Faunce) 13th Ed. Copyrighted 1887 by author. Prepared for the use of Students of the Massachusetts Institute of Technology.
 2. Teaching of Mechanical Drawing (R. P. Hoelscher) 1929 John Wiley and Sons pp. 229
 3. Engineering Drawing: A Manual of Engineering Drawing for Students and Draftsmen (Thomas E. French) 1911, 1st Ed. 4th Imp. Pp. 289, McGraw-Hill
 4. Engineering Drawing: A Manual of Engineering Drawing for Students and Draftsmen (Thomas E. French) 1918, 2nd Ed. 9th Imp. Pp. 329, McGraw-Hill
 5. Engineering Drawing: A Manual of Engineering Drawing for Students and Draftsmen (Thomas E. French) 1941, 6th Ed. 13th Imp. Pp. 622, McGraw-Hill
 6. Engineering Drawing: A Manual of Engineering Drawing for Students and Draftsmen (Thomas E. French) 1941, 6th Ed. 13th Imp. Pp. 622, McGraw-Hill
 7. Engineering Drawing: A Manual of Engineering Drawing for Students and Draftsmen (Thomas E. French) 1918, 2nd Ed. 2nd Imp. Pp. 329, McGraw-Hill
Edition includes copy of Purdue University, Department of Practical Mechanics, Drawing Room Standards and Assignment "checking score key"
 8. Engineering Drawing (Eugene G. Part) 1959 A Holt-Dyden Book, Henry Holt and Company, New York.
 9. Fundamentals of Engineering Drawing For Technical Students and Professional Draftsmen (W. J. Luzadder) 1952, 3rd Ed. Prentice-Hall, Inc.
 10. Drafting Technology (James H. Earle) 1982 Pp. 823, Addison-Wesley Publishing
 11. Graphics in Engineering Design (A. Lewis & W. Chalk) 1980, Pp. 737, John Wiley and Sons.
 12. Engineering Graphics Fundamentals, (A. R. Eide, et. Al.) 1985, McGraw-Hill Book Company. Examination Copy.
 13. Engineering Graphics (H. W. Yankee) 1985 Pp. 616, PWS Engineering, Boston.
 14. Engineering Graphics (Croft, Myers, Boyer, Miller, Demel) 1989, Pp. 6199 + appendices. John Wiley and Sons.
 15. Graphics for Engineers (J. H. Earle) 1989, 2nd Ed. , Addison-Wesley. Professional Examination Copy.
 16. Graphic Science and Design (French, Vierck, Foster) 1984, 4th Ed. Pp. 692. McGraw-Hill
 17. Modern Engineering Graphics & Design (Voland) 1987, West Publishing Company. Complimentary Review Copy.
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Box 3

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Box 3

1. *Darstellende Geometrie*, Band II (F. Reutter) 1958 Verlag G. Braun – Karlsruhe, pp. 240.
2. *Problems in Applied Descriptive Geometry* (M. McNeary) 1961 McGraw-Hill, softbound workbook.
3. *Descriptive Geometry Worksheets: Series A* (Parre, loving, and Hill) 1977 Macmillan Publishing, softbound workbook.
4. *Descriptive Geometry Work Sheets* (Porsch, Elrod, Hammond) 1957, Balt Publishers, softbound workbook.
5. *Additional Descriptive Geometry Problems* (Elrod, Zacher, & Gerdorn) Balt Publishers, softbound workbook.
6. *Descriptive Geometry Problems: Book I* (A. L. Hoag) 1962 Holt, Rinehart and Winston, New York, softbound workbook.
7. *Engineering Drawing and Graphics Technology Problems Book VII* (French, Vierck, Foster) 1993, McGraw-Hill, softbound workbook.
8. *Problems in Mechanical Drawing* (Levens & Cooper) 6th Ed., 1985 McGraw-Hill, softbound workbook.
9. *The Technical Drawing Workbook* (Luckow) 1994, Addison-Wesley, softbound workbook.
10. *Solutions Manual to Introduction to Engineering Drawing* (Luzadder & Duff) 1989, Prentice-Hall, softbound.
11. *Problems in Engineering Graphics* (Armbal & Crawford) 1977 Kendall/Hunt, softbound workbook.
12. *Engineering Drawing Problems* (Vierck & Hang) 1978 McGraw-Gill, softbound workbook.
13. *Principles of Engineering Graphics Problems: Series I* (Spencer, Hill, Loving & Dygdon) 1990 Macmillan, softbound workbook.
14. *Technical Drawing Problems: Series I* (Giesecke, Mitchell, Spencer, Hill, Dygdon, and Novak) 9th ED. 1991 Macmillan, softbound workbook.
15. *Modern Basic Drafting Workbook Part I* (Weaver) 1979, Gulf Publishing, softbound workbook.
16. *Instructional Workbook for Drafting* (Wallach & Hearlihy) 1985, Hearlihy & Co., softbound workbook (includes instructor's guide)
17. *Basic Drafting Problems* (Gerevas) 1981, Bobbs-Merrill Educational Publishing, softbound workbook.
18. *Drafting Technology Problems* (Gerevas) 1981, 2nd Ed., Bobbs-Merrill Educational Publishing, softbound workbook.
19. *Technical Drawing Problems Series 3* (Spencer, Hill, Dygdon) 1980, 3rd Ed., Macmillan, softbound workbook.
20. *Technical Drawing Problems Series I* (Spencer, Hill, Dygdon) 1981, 6th Ed., Macmillan, softbound workbook.
21. *Fundamentals of Engineering Graphics* (Dent, Devans, Marvin & Trent) 1983 SI 3rd Ed., Macmillan, softbound text/workbook
22. *Introduction to Engineering Drawing* (Luzadder, Duff) 1989 Prentice-Hall, softbound text.
23. *New Graphics Workbook* (Stevenson) 1991, NPE Technical Publishing, softbound workbook.
24. *Problems for Graphic Presentation II* (Reed, Frampton, Parkinson) 1988, OSU.

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Box 4

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Box 4

1. *Mechanical Drawing : CAD – Communications* (French, Svensen, Helsel, Urbanick) 1990, 11th Ed. McGraw-Hill
2. *Technical Drawing* (Giesecke, Mitchell, Spenser, Hill, Dygdon) 1980, 7th Ed., Macmillan
3. *Engineering Design Graphics* (Earle) 1994, 8th Ed. Addison-Wesley.
4. *Technical Drawing and Design (Lamit)* 1995, West Publishing.
5. *Engineering Design Graphics* (Earle) 1977, 3rd Ed. Addison-Wesley.
6. *Engineering Drawing and Graphic Technology* (French, Vierck, Foster) 1993, 14th Ed. McGraw-Hill.
7. *Engineering Graphics* (Giesecke, Mitchell, Spencer, Hill, Loving, Dygdon) 1981, 3rd ED. Macmillan.
8. *Fundamentals of Engineering Drawing* (Luzadder, Duff) 1993, 11th Ed. Prentice-Hall.
9. *Graphics for Engineers: Visualization, Communication, and Design* (Dobrovolny & O'Bryant) 1984, 2nd Ed., Wiley.
10. *Concepts of Technical Graphics* (Duff) 1990, PWS-KENT.
11. *Descriptive Geometry* (Pare, Loving, Hill, Pare) 197, 9th Ed. Prentice-Hall.