

Appendix A: Auxiliary Reading

THIS BOOK provides an introduction into geological structures, integrated with the techniques of map interpretation. Many of the topics discussed have been covered in other sources, which may be consulted as auxiliary reading. A list of established textbooks is given below.

If you intend to develop a career, concentrating on structural geology and the associated interpretation of geological maps, it is strongly recommended to familiarize yourself with the professional journals, which publish research articles, communicating modern developments in these subjects. Some of the most outstanding research journals in the field of concern are, also, listed below. Consult your librarian or instructor or both for further guidance, if necessary.

Textbooks in structural geology

Billings, MP, 1954. *Structural Geology*. Prentice-Hall, New Jersey, 514 pp.

Davis, GH, 1984. *Structural Geology of Rocks and Regions*. Wiley, New York, 492 pp.

Dennis, JG, 1987. *Structural Geology - An Introduction*. Brown Publishers, Iowa, 448 pp.

De Sitter, LU, 1956. *Structural Geology*. McGraw-Hill, New York, 552 pp.

Hatcher, RD Jr., 1990. *Structural Geology*. Merrill Pub. Co., Columbus, 531 pp.

Hobbs, BE, Means, WD, and Williams, PF, 1976. *An Outline of Structural Geology*. Wiley, New York, 571 pp.

Park, RG, 1982. *Foundations of Structural Geology*. Blackie, London, 135 pp.

Ramsay, JG, 1967. *Folding and Fracturing of Rocks*. McGraw-Hill, New York, 568 pp.

Russell, WI, 1955. *Structural Geology for Petroleum Geologists*. McGraw-Hill, New York, 427 pp.

Sherbon-Hills, E, 1970. *Elements of Structural Geology*. Chapman and Hall, London, 502 pp.

Spencer, EW, 1988. *Introduction to the Structure of the Earth* (3rd ed.). McGraw-Hill, New York, 551 pp.

Stoces, B and White, CH, 1935. *Structural Geology*. Macmillan, London, 460 pp.

Suppe, J, 1985. *Principles of Structural Geology*. Prentice-Hall, New Jersey, 537 pp.

Turner, FJ and Weiss, LE, 1963. *Structural Analysis of Metamorphic Tectonites*. McGraw-Hill, New York, 545 pp.

Twiss, RJ and Moores, EM, 1992. *Structural Geology*. Freeman and Co., New York, 532 pp.

Whitten, EHT, 1966. *Structural Geology of Folded Rocks*. Rand McNally, Chicago, 678 pp.

Interpretation of geological maps

Bennison, GM, 1990. *An Introduction to Geological Structures and Maps* (5th ed.). Edward Arnold, London, 69 pp.

Bolton, T and Proudlove, P, 1989. *Geological Maps*. Cambridge University press, 144 pp.

Boulter, C, 1989. *Four Dimensional Analysis of Geological Maps. Techniques of Interpretation*. John Wiley & Sons, New York, 296 pp.

Butler, BCM and Bell, JD, 1988. *Interpretation of Geological Maps*. Longman, Harlow, 236 pp.

Hatcher, RD Jr. and Hooper, RJ, 1990. *Laboratory Manual for Structural Geology*. Macmillan Publ. Co., New York, 217 pp.

Lobeck, AK, 1924. *Block Diagrams and Other Graphic Methods Used in Geology and Geography*. Wiley, New York, 201 pp.

Lisle, RJ, 1988. *Geological Structures and Maps*. Pergamon Press, Oxford, 150 pp.

Maltman, A, 1990. *Geological Maps: An Introduction*. Van Nostrand Reinhold, New York, 184 pp.

Marshak, S and Mitra, G, 1988. *Basic Methods of Structural Analyses*. Prentice-Hall, Englewood Cliffs, New Jersey, 446 pp.

Moseley, F, 1979. *Advanced Geological Map Interpretation*. Edward Arnold, London.

Platt, JI, 1951. *Selected Exercises upon Geological Maps*. Thomas Murby, London, 31 maps.

Platt, JI, 1952. *A Series of Elementary Exercises upon Geological Maps*. Thomas Murby, London, 29 maps.

Platt, JI and Challinor, MA, 1930. *Simple Geological Structures: A Series of Notes and Map Exercises*. Thomas Murby, London, 60 pp.

Powell, D, 1992. *Interpretation of Geological Structures through Maps*. Longman, Harlow, 176 pp.

Ragan, DM, 1973. *Structural Geology* (2nd ed.). Wiley, New York, 208 pp.

Ramsay, JG and Huber, M, 1983. *The Techniques of Modern Structural Geology. Volume 1: Strain Analysis*. Academic Press, London, 307 pp.

Ramsay, JG and Huber, M, 1987. *The Techniques of Modern Structural Geology. Volume 2: Folds and Fractures*. Academic Press, London, pp. 309-700.

Roberts, JL, 1984. *Introduction to Geological Maps and Geological Structures*. Pergamon Press, Oxford, 322 pp.

Rowland, SM and Duebendorfer, EM, 1986. *Structural Analysis and Synthesis: A Laboratory Course in Structural Geology*. Blackwell Scientific, Palo Alto, 279 pp.

Shelton, JS, 1966. *Geology Illustrated*. Freeman, New York. 434 pp.

Simpson, B, 1968. *Geological Maps*. Pergamon Press, Oxford, 98 pp.

Spencer, EW, 1993. *Geological Maps. A practical guide to the interpretation and preparation of geological maps*. Macmillan Publ. Co., New York, 175 pp.

Thomas, JAG, 1973. *An Introduction to Geological Maps* (metricated edition). Thomas Murby & Co. / George Allen & Unwin Ltd., London, 64 pp.

Wilson, G, 1982. *An Introduction to Small-scale Geological Structures*. George Allen & Unwin Ltd., London, 64 pp.

Interpretation of remote-sensing maps

Allum, JAE, 1966. *Photogeology and Regional Mapping*. Pergamon Press, 111 pp.

Drury, SA, 1987. *Image Interpretation in Geology*. Allen & Unwin, 243 pp.

Sabins, FF Jr, 1978. *Remote Sensing*. Freeman, San Francisco, 426 pp.

Sabins, FF Jr, 1986. *Remote Sensing Laboratory Manual* (3rd ed.). Remote Sensing Enterprises, Box 446, LaHabra, California 90631, USA.

Short, NM, and Blair, RW Jr, 1986. *Geomorphology from Space*. NASA Special Publication 486, Washington DC, 717 pp.

Specialist periodicals on structural geology

The principal journals dedicated to structural geology are: *Journal of Structural Geology*, *Tectonophysics*, and *Annales Tectonicae*. Very worthwhile papers, also, occur occasionally in the specialist journals of related disciplines, such as: *Journal of Geophysical Research*, *Physics of the Earth and Planetary Interiors*, *Tectonics*, *Journal of Precambrian Research*, and the *American Association of Petroleum Geologists Bulletin*. A third source of new and some classic contributions are the following general journals: *Nature*, *Science*, *Geology*, *Bulletin of the Geological Society of America*, *American Journal of Science*, *Quarterly Journal of the Geological Society of London*, *Journal of Geology*, *Geologische Rundschau*, *Journal of Canadian Earth Sciences*, *Eclogae Helvetica*, and *Geologie en Mijnbouw*.