

References for Linear Tomography

- Aki, K., and P. G. Richards, *Quantitative Seismology: Theory and Methods*, Volume II (Freeman, New York, 1980), Chapter 12, and especially section 12.3.6 on Backus-Gilbert theory.
- Backus, G., and F. Gilbert, “Numerical applications of a formalism, for geophysical inverse problems,” *Geophys. J. Roy. Astron. Soc.* **13**, 247–276 (1967).
- Backus, G., and F. Gilbert, “The resolving power of gross earth data,” *Geophys. J. Roy. Astron. Soc.* **16**, 169–205 (1968).
- Backus, G., and F. Gilbert, “Uniqueness in the inversion of inaccurate gross Earth data,” *Phil. Trans. Roy. Soc. London* **A266**, 123–192 (1970).
- Dines, K. A., and R. J. Lytle, “Computerized geophysical tomography,” *Proc. IEEE* **67**, 1065–1073 (1979).
- Gilbert, P., “Iterative methods for the three-dimensional reconstruction of an object from projections,” *J. Theor. Biol.* **36**, 105–117 (1972).
- Gordon, R., R. Bender, and G. T. Herman, “Algebraic reconstruction techniques (ART) for three-dimensional electron microscopy and x-ray photography,” *J. Theor. Biol.* **29**, 471–481 (1970).
- Herman, G. T., *Image Reconstruction from Projections – The Fundamentals of Computerized Tomography* (Academic, New York, 1980), Chapter 6, pp. 100–107.
- Ivansson, S., “Remark on an earlier iterative tomographic algorithm,” *Geophys. J. Roy. Astron. Soc.* **75**, 855–860 (1983).
- Jackson, D. D., “Interpretation of inaccurate, insufficient, and inconsistent data,” *Geophys. J. Roy. Astron. Soc.* **28**, 97–109 (1972).
- Jordan, T. H., and J. N. Franklin, “Optimal solutions to a linear inverse problem in geophysics,” *Proc. Nat. Acad. Sci.* **68**, 291–293 (1971).
- Kaczmarz, S., “Angenäherte Auflösung von Systemen linearer Gleichungen,” *Bull. Acad. Polon. Sci. Lett.* **A**, 355–357 (1937).
- Lanczos, C., *Linear Differential Operators* (Van Nostrand, New York, 1961), Chapter 3, pp. 100–162.
- Levenberg, K., “A method for the solution of certain non-linear problems in least squares,” *Quart. Appl. Math.* **2**, 164–168 (1944).

- Marquardt, D. W., "An algorithm for least squares estimation of non-linear parameters," *SIAM J. Appl. Math.* **11**, 431–441 (1963).
- Moore, E. H., *Bull. Amer. Math. Soc.* **26**, 394–395 (1920).
- Natterer, F., *The Mathematics of Computerized Tomography* (Wiley, New York, 1986), Chapter V.
- Penrose, R. A., "A generalized inverse for matrices," *Proc. Cambridge Philso. Soc.* **51**, 406–413 (1955).
- Penrose, R. A., "On best approximation solutions of linear matrix equations," *Proc. Cambridge Philso. Soc.* **52**, 17–19 (1955).
- Tanabe, K., "Projection method for solving a singular system of linear equations and its applications," *Numer. Math.* **17**, 203–214 (1971).
- Tikhonov, A. N., and V. Y. Arsenin, *Solution of Ill-Posed Problems* (Winston, New York, 1977).
- Wiggins, R. A., "The general linear inverse problem: Implications of surface waves and free oscillations for Earth structure," *Rev. Geophys. Space Phys.* **10**, 251–285 (1972).