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The Erdős distance problem.

Student Mathematical Library 56. Providence, RI: American Mathematical Society (AMS) (ISBN 978-0-8218-5281-1/pbk). xii, 150 p. (2011).

The readers of this excellent book are familiarized with some of the results in the study of Erdős distance problem. The book is problem oriented as most of the learning is meant to be done by working through the exercises. Solutions to these exercises are provided, but in several places, steps are intentionally left out of proofs, and the reader is then asked to fill them in. There are 12 chapters, with 3 appendix, bibliography, biographical informations and index.

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Classification: K30 F60

Keywords: Erdős distance; graph theory; Cauchy-Schwarz inequality; dot products; vector spaces; information theory