

Kato, Tosio**Perturbation theory for linear operators. 2nd corr. print. of the 2nd ed.** (English)[Zbl 0531.47014](#)[Grundlehren der Mathematischen Wissenschaften](#), 132. Berlin etc.: Springer-Verlag. XXI, 619 p. DM 128.00; \$ 50.20 (1984).For a review of the second edition (1976) see [Zbl 0342.47009](#).**MSC:**

- [47A55](#) Perturbation theory of linear operators
- [47-02](#) Research exposition (monographs, survey articles) pertaining to operator theory
- [47D03](#) Groups and semigroups of linear operators
- [47A10](#) Spectrum, resolvent
- [47B10](#) Linear operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.)
- [47A53](#) (Semi-) Fredholm operators; index theories

Cited in **3** Reviews
Cited in **172** Documents**Keywords:**

determinant; Fredholm operators; trace; stability theorems; analytic perturbation theory; asymptotic perturbation theory; semigroups of operators; spectrum