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**Proximal analysis and boundaries of closed sets in Banach space. I: Theory.** (English)

[Zbl 0577.46011](#)

[Can. J. Math.](#) 38, 431-452 (1986).

In this part I we extend "lim inf" formulas and proximal normal formulas and lift other proximal analytical theorems from finite dimensional spaces to reflexive Banach spaces. In Part II we give many applications in nonsmooth analysis, geometry of normed spaces and differentiability theory.

**MSC:**

[46B20](#) Geometry and structure of normed linear spaces

[46A55](#) Convex sets in topological linear spaces; Choquet theory

Cited in **4** Reviews  
Cited in **40** Documents

**Keywords:**

[proximal normal formulas](#)

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