

[Zemek, M.](#)

Strong monotonicity and Lipschitz-continuity of the duality mapping. (English)

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Various kinds of differentiability of the norm and various kinds of smoothness and convexity properties of normed spaces can be described by means of the duality mapping. The author gives characterizations of two other geometric properties of normed spaces in terms of the duality mapping.

Reviewer: [U.Kosel \(Freiberg\)](#)

MSC:

[47H04](#) Set-valued operators

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

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[differentiability of the norm](#); [smoothness and convexity properties of normed spaces](#); [duality mapping](#)

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