

Zhao, Y. X.; Wang, S. Y.; Coladas Uria, L.; Mishra, S. K.

A derivative for semireinvex functions and its applications in semireinvex programming.
(English) [Zbl 1247.90253](#)

Mishra, Shashi Kant (ed.), Topics in nonconvex optimization. Theory and applications. Selected papers based on the presentations at the advanced training programme on nonconvex optimization and applications, Varanasi, India, March 22–26, 2010. New York, NY: Springer (ISBN 978-1-4419-9639-8/hbk; 978-1-4419-9640-4/ebook). Springer Optimization and Its Applications 50, 79–86 (2011).

Summary: A directional derivative concept is introduced to develop Fritz-John and Kuhn-Tucker conditions for the optimization of general semireinvex functions. The relationship between the optimization problem and the corresponding semirevariational inequality problem is also shown.

For the entire collection see [\[Zbl 1216.90003\]](#).

MSC:

[90C30](#) Nonlinear programming

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