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M Zuhair Nashed* (zuhair.nashed@ucf.edu). *Concepts of Differentiability in Smooth and Non-smooth Analysis with Applications in Optimization Theory and Algorithms*. Preliminary report.

In this talk I will provide an overview of several concepts of differentiability in smooth, semi-smooth and non-smooth analysis. Applications in optimization theory and algorithms and nonlinear integral equations will be presented. (Received September 17, 2013)