

# P-order optimality conditions for constrained optimization problems

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## Abstract

In this talk, we will present optimality conditions for degenerate constrained optimization problems. The approach is based on the construction of  $p$ -factor operator and  $p$ -regularity theory. The main result of this theory gives a detailed description of the structure of the zero set of irregular nonlinear mappings. Previously, necessary optimality conditions were proposed for some classes of optimization problems with irregular inequality constraints.

## References

- [1] Szczepanik E., Tret'yakov A. A.,  $p$ -factor methods for nonregular inequality-constrained optimization problems - Nonlinear Analysis: Theory, Methods and Applications, 2008, pp 4241-4251.

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