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Anisotropic Quasi-Linear Elliptic Problems

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Abstract

This thesis focuses on the analysis of anisotropic quasi-linear elliptic problems, where the differential operator exhibits different behaviors depending on the spatial directions. We investigate the existence and regularity of weak solutions in anisotropic Sobolev spaces. Main results include existence theorems via minimization methods and interior regularity estimates. The techniques employed combine tools from nonlinear functional analysis and anisotropic Sobolev-type inequalities.

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References

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