Our aim is to improve results on quasi-linear evolution equations as well as to significantly simplify their proofs. Therefore, we study multiplication as well as Nemytskij operators in anisotropic Bessel potential spaces, Besov spaces, and Sobolev-Slobodeckij spaces.
Concerning multiplication we consider optimal estimates, which are direct generalizations of the well-known estimates in the isotropic case.
Concerning Nemytskij operators we consider the acting of analytic functions on supercritial anisotropic function spaces of the above type.