SOME REMARKS ON THE MODULUS OF MONOTONICITY FOR ORLICZ SPACES

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Abstract. Lower and upper estimates of the modulus of monotonicity of Orlicz spaces $(L_\Phi, \|.\|_\Phi)$ equipped with the Luxemburg norm in terms of Simonenko and Lindberg indices are given in the case of a nonatomic finite, nonatomic infinite or the counting measure space (T, Σ, μ). Some example of an Orlicz space L^Φ for which it was possible to calculate the exact value of its modulus of monotonicity is presented. The coefficient of monotonicity of Orlicz spaces endowed with Luxemburg norm and generated by Orlicz functions Φ vanishing outside zero but satisfying the Δ_2-condition in the case of a nonatomic infinite or the counting measure space is computed.