

## ON THE SOLVABILITY OF ONE CLASS OF TWO-DIMENSIONAL URYSOHN INTEGRAL EQUATIONS

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We study one class of nonlinear Urysohn integral equations in a quadrant of the plane. It is assumed that, for the corresponding two-dimensional Urysohn operator, some Hammerstein operator with power nonlinearity serves as a minorant in the sense of M. A. Krasnosel'skiĭ. We prove the existence of a nonnegative (nontrivial) and bounded solution for such equations.

*Key words and phrases:* Urysohn equation, iteration, monotonicity, power nonlinearity, Carathéodory condition.

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