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Infinite products of affine projections from the numerical point of view.

(Hungarian. English summary)

Alkalmazott Mat. Lapok 10, 185-201 (1984).

The behaviour of Kaczmarz type methods for solving systems of linear functional equations in Hilbert space is investigated when the existence of solutions is not provided. In the classical finite dimensional case a sharp estimate of the convergence rate is given for random Kaczmarz iterations.

*Keywords* : Kaczmarz methods; Hilbert space; convergence rate; random Kaczmarz iterations

*Classification* :

- \*65J10 Equations with linear operators (numerical methods)
- 47A50 Equations and inequalities involving linear operators
- 65F10 Iterative methods for linear systems