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QUASIREVERSIBILITY FOR INHOMOGENEOUS ILL-POSED PROBLEMS

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The quasireversibility method is a regularization technique used to obtain an approximate solution to an ill-posed problem. We consider the inhomogeneous ill-posed abstract Cauchy problem given by $du(t)/dt = Au(t) + h(t)$, $u(0) = \chi$, where A is a positive self-adjoint operator on a Hilbert space \mathcal{H} , $0 \leq t < T$, and $h : [0, T) \rightarrow \mathcal{H}$; and examine continuous dependence on modeling for solutions to approximate problems.

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