Generalized convolutions and the integral equations of the convolution type

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Abstract: This article gives six new generalized convolutions of the integral transforms of Fourier type, and investigates a class of integral equations of convolution type by using the constructed convolutions. Namely, the explicit solutions in $L^1(d)$ of a class of integral equations of convolution type are obtained. © 2010 Taylor & Francis.

Author Keywords: Factorization identity; Gaussian function; Generalized convolution; Integral equations of the convolution type

Year: 2010
Source title: Complex Variables and Elliptic Equations
Volume: 55
Issue: 4
Page : 331-345
Cited by: 1
Link: Scopus Link
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ISSN: 17476933
DOI: 10.1080/17476930902998886
Language of Original Document: English
Abbreviated Source Title: Complex Variables and Elliptic Equations
Document Type: Article
Source: Scopus
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