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One of the most important chapters in modern functional analysis is the theory of approximate methods for solution of various mathematical problems. Besides providing considerably simplified approaches

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to numerical methods,
the ideas of functional
analysis have also
given rise to essentially
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Besides providing
considerably simplified
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given rise to essentially
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schemes in problems of linear algebra, differential and integral equations, nonlinear analysis, and so on. The general theory of approximate methods includes many known fundamental results.

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Besides providing considerably simplified approaches to numerical methods,

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the ideas of functional analysis have also given rise to essentially new computation schemes in problems of linear algebra, differential and integral equations, nonlinear analysis, and so on. The general theory of approximate methods includes many known fundamental results.

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The operator equations under investigation include various linear and nonlinear types of ordinary and partial differential equations, integral equations, and abstract evolution equations, which are frequently involved in applied mathematics and engineering applications.

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Solutions of
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Series in ...**

Pris: 1369 kr. Häftad,
2011. Skickas inom 5-8
vardagar. Köp

Approximate Solution
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av M A Krasnosel'Skii,
G M Vainikko, R P
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The approximate solution of operator equations 203

Theorem 1 The approximate solution x_δ is strongly convergent to the exact solution x_0 :

$$\|x_\delta - x_0\| \leq \delta \quad (15)$$

Proof. By the lemma, we have $z_\delta \in Q_\delta$ for all $\delta > 0$. Since $\|z_\delta\|$ is minimal, $\|z_\delta\| \leq \|z_0\|$ so that the set $\{z_\delta\} (0 < \delta < \delta_0)$ is bounded.

The approximate

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**solution of operator
equations of the ...**

The original equation

(1.1) can now be

written as $(I-K)g^h$,

(2.7) 2 Actually, (2.3) -

(2.4) by the principle of

uniform boundedness.

INTEGRAL AND

OPERATOR EQUATIONS

271 while as an

approximating

equation in C we

consider (cf. (1.3) and

(1.4)) $(I-K)g = h$.

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**solutions of integral
and operator
equations ...**

method is formulated and its convergence to the best approximate solution is established. The methods of this paper can also be used for calculating the best least squares solution in Hubert spaces or the true solution in the case of an invertible operator. 1.

Introduction. A solution of a consistent

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operator equation (1)

$$Ax = b,$$

**Calculating the Best
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Solution of an
Operator ...**

LEMMA 3 [32] Let E be a Banach space and $T : D(T) \subset E \rightarrow E$ be an m -accretive operator.

Then, for any given $f \in E$, the equation $x + Tx = f$ has a unique solution. 3 Main Results. Let E be a real Banach space which is

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uniformly smooth and
uniformly convex.

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SOLUTION OF A
NONLINEAR m-
ACCRETIVE
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(1984) Approximate
solution of random
integral equations:
general methods.
Mathematics and
Computers in
Simulation 26 :4,
321-328. (1984) Linear
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angle density.

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**Practical
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Krasnoselskii, M. A.
1972, Approximate
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Krasnoselskii [and
others] Translated by
D. Louvish Wolters-
Noordhoff Pub
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...

The Galerkin method
for the numerical
solution of Fredholm
integral equations of
the second kind. Rept.
CNA-S Univ. Texas
Austin (1970) 8.

Kantorovich, L. V.,
Akilov, G. P.; Functional

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analysis in normed
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[M A Krasnosel'skiĭ;]
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The m-term
approximate solution
of Eq.(2) is given by $y = u_0 + u_1 + \dots + u_{m-1}$.

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solutions to linear
and nonlinear wave**

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Many problems in science and engineering have their mathematical formulation as an operator equation $Tx=y$, where T is a linear or nonlinear operator between certain function spaces. In practice, such equations are solved approximately using numerical methods, as their exact solution may not often

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be possible or may not
be worth looking for
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[M A Krasnosel'skii; G
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Rutitskii; V Ya

Stetsenko] -- One of

the most important

chapters in modern

functional analysis is

the theory of

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for solution of various

mathematical

problems. Besides

providing considerably

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Some of this research is summarized in the present monograph. The authors' aim has not been to give an exhaustive account, even of the principal known results. The book consists of five chapters. Approximate Solution of Operator Equations (Paperback)

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have focused to investigate the solutions of nonlinear differential equations with the fractional operator by developing quite a few analytical or numerical techniques to find approximate solutions [4, 6, 9, 16, 17, 18].

These differential

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equations involve
several fractional
differential operators
like Riemann-Liouville,
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