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and the generalized  
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and determinants,  
the singular value  
decomposition  
theorem, the Cauchy  
principal value, and*

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influenced many  
other areas of  
mathematics, most

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theory and control  
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amending the  
original text, focuses  
on further  
developments of the  
theory, including the  
study of two  
operator classes:  
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converge strongly to  
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zero, and operators  
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whose functional  
Applications To  
calculus (as  
introduced in  
Chapter III) is not  
injective. For both of  
these classes, a  
wealth of material on  
structure,  
classification and  
invariant subspaces

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*is included in*

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and more. Finally, a  
summary of the  
essential theorems  
as well as exercises  
reinforcing key  
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methods. Topics  
include linear elliptic  
systems for Heat  
composite material  
— the coefficients  
may jump from  
domain to domain;  
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— many applied  
problems involve*

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principles, and  
approaches involved  
in spectral theory in  
Hilbert space. The  
publication first  
elaborates on the  
concept and specific  
geometry of Hilbert  
space and bounded  
linear operators.

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isomorphisms,  
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operator and bounded  
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selfadjoint operators.  
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from the theory of  
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functions governed by  
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singularities. A unified  
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no need for them to  
study these subjects  
in great depth.

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to these topics so that  
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they know what  
approach to take.

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contained. The  
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are described, as  
well as systematic  
descriptions on the  
recent study of the  
blowup of the  
solution.*

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unifying  
presentation of  
three basic areas  
of nonlinear  
analysis: convex  
analysis, monotone  
operator theory,  
and the fixed point  
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a unique  
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*approach, the  
theory is  
developed from the  
ground up, with  
the rich  
connections and  
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between the areas  
as the central  
focus, and it is  
illustrated by a  
large number of  
examples. The  
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them. The  
construction of these  
operators itself is  
interesting and  
provides new types of  
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operators. Also, by  
considering spectral-  
theoretic properties  
of these operators,  
the authors illustrate  
how "free-Hilbert-  
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More interestingly,  
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demonstrate how  
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