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Modern Methods in Operator Theory and Harmonic Analysis

OTHA 2018, Rostov-on-Don, Russia, April 22-27, Selected, Revised and
Extended Contributions

- Highlights new results in methods, problems and applications of operator theory and harmonic analysis, presented by leading researchers
- Touches on recent developments in spectral theory with applications to PDEs and real-world problems
- Focuses on new trends in operator theory and function spaces theory, such as variable exponent spaces and objects of variable nature

This proceedings volume gathers selected, peer-reviewed papers from the "Modern Methods, Problems and Applications of Operator Theory and Harmonic Analysis VIII" (OTHA 2018) conference, which was held in Rostov-on-Don, Russia, in April 2018. The book covers a diverse range of topics in advanced mathematics, including harmonic analysis, functional analysis, operator theory, function theory, differential equations and fractional analysis – all fields that have been intensively developed in recent decades. Direct and inverse problems arising in mathematical physics are studied and new methods for solving them are presented. Complex multiparameter objects that require the involvement of operators with variable parameters and functional spaces, with fractional and even variable exponents, make these approaches all the more relevant. Given its scope, the book will especially benefit researchers with an interest in new trends in harmonic analysis and operator theory, though it will also appeal to graduate students seeking new and intriguing topics for further investigation.

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