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Commuting Nonselfadjoint Operators in Hilbert Space

1272

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Theory Of Commuting Nonselfadjoint Operators

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believed This follows from the generalized Cayley Hamilton Theorem due to M S Livsic Two commuting operators with finite dimensional imaginary parts are connected in the generic case by a certain algebraic equation whose degree does not exceed the dimension of the sum of the ranges of imaginary parts Such investigations have been carried out in two directions One of them presented by L L Waksman is related to semigroups of projections of multiplication operators on Riemann surfaces Another direction which is presented here by M S Livsic is based on operator colligations and collective motions of systems Every given wave equation can be obtained as an external manifestation of collective motions The algebraic equation mentioned above is the corresponding dispersion law of the input output waves

Operator Theory, System Theory and Related Topics Daniel Alpay, Victor Vinnikov, 2012-12-06 This volume presents the refereed proceedings of the Conference in Operator Theory in Honour of Moshe Livsic 80th Birthday held June 29 to July 4 1997 at the Ben Gurion University of the Negev Beer Sheva Israel and at the Weizmann Institute of Science Rehovot Israel The volume contains papers in operator theory and its applications understood in a very wide sense many of them reflecting directly or indirectly a profound impact of the work of Moshe Livsic Moshe Mikhail Samuilovich Livsic was born on July 4 1917 in the small town of Pokotilova near Uman in the province of Kiev in the Ukraine his family moved to Odessa when he was four years old In 1933 he enrolled in the Department of Physics and Mathematics at the Odessa State University where he became a student of M G Krein and an active participant in Krein's seminar one of the centres where the ideas and methods of functional analysis and operator theory were being developed Besides M G Krein M S Livsic was strongly influenced by B Va Levin an outstanding specialist in the theory of analytic functions A by deep understanding of operator theory as well as function theory and a penetrating search of connections between the two were to become one of the landmarks of M S Livsic's work M S Livsic defended his Ph D

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