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AN ABILITY OF UNAMBIGUOUS DIRECTION FINDING OF WIDE BAND SIGNALS
SOURCES BY MEANS OF LINEAR ARRAY OF VECTOR - SCALAR RECEIVERS.

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The directivity patterns of linear array of vector - scalar receivers are investigated under different directions of signal arrivals. The measurements are undertaken in shelf zone region where noise source was located in array Fraunhofer zone. There was established the possibility of signals separation which arrive with opposite sides and find good agreement of experiments and model responses under all directions of arrivals.

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ESTIMATION OF EXCITEMENT COEFFICIENTS FOR RADIATORS IN AERIALS
COMPOSITION BY RESULTS OF MEASUREMENTS OF THE FIELD IN THE NEAR
ZONE

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Experimental results of an estimation of excitement coefficients for radiators working together in composition of the hydro-acoustic aerial are analyzed. Excitement coefficients are found by minimization of function containing a difference of experimental and theoretical values of complex amplitude in various points of a near field of the aerial. Working capacity of the given method is experimentally shown.

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THE ESTIMATE OF PIEZO-ELECTRIC TRANSDUCER MUTUAL IMPACT

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The method of experimentally - computational estimate of self and mutual impedances of transducers in their putting places in multiunit array. One of possible variant estimate of matrix elements of self and mutual impedance is examined. The directivity pattern correction procedure is developed for transducer impact case. It was pointed out that impact counting increased radiation power and decreased directivity pattern side lobe in Fraunhofer zone.