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BOUNDARY VALUE PROBLEMS FOR THE SYSTEMS OF SELF-SIMILAR EQUATIONS [1]

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Boundary value problems for the self-similar equations or their systems frequently arise in the investigations of hydrodynamics. As a rule these equations have quadratic non-linearities and depend of some parameters. Wide range of investigations among them qualitative investigations during the century paid attention to such problems, initially from the classical works along the latest ones. For example, set against the publications [1], [2]. The boundary value problems for the self-similar equations arising in hydrodynamics explored also in works of Latvian physicists (for example, [3], [4]). The qualitative analysis of some problems by this means will be considered.

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