

# The Riemann problem for functions with polar lines of higher orders

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## Abstract

© 2014, Allerton Press, Inc. We consider solutions of the jump problem, homogeneous and inhomogeneous Riemann problems for functions with polar lines of orders  $p_k + 1$  ( $k = 1, 2, \dots$ ),  $p_k \geq 0$ . We study the cases of continuous and discontinuous coefficients. In the special case  $p_k = 0$  the obtained results turn into the earlier known ones.

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## Keywords

canonical function, entire function, linearly meromorphic function, order of polar line, Riemann problem