

SCHWARZ PROBLEM FOR COMPLEX PARTIAL DIFFERENTIAL
EQUATIONS

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This study consists of four chapters. In the first chapter we give some historical background of the problem, basic definitions and properties. Basic integral operators of complex analysis and Schwarz problem for model equations are presented in Chapter 2. Chapter 3 is devoted to the investigation of the properties of a class of strongly singular integral operators. In the last chapter we consider the Schwarz boundary value problem for the general partial complex differential equations of higher order.

Keywords: Schwarz problem, strongly singular integral operators, complex partial differential equations.