
PREFACE

The present dissertation deals with the study of H-Function of Fox, its various properties in Integral Transforms, Self-Reciprocal Functions & Inverse Functions and evaluation of some of the hither-to unknown integrals.

The H-Function of Fox, being one of the most general functions, is significant due to the fact that most of the special functions appearing in Applied Mathematics and Mathematical Physics are particular cases of this function and hence many of the known results may be easily derived from those obtained in this dissertation.

The Contents of Chapter XIII have been accepted for publication in the Journal of the Indian Mathematical Society, while those of Chapters II, III and VII have already appeared in the Proceedings of the National Academy of Sciences, India. The reprints of the papers are attached in the Appendix. The contents of Chapter VI have also been accepted for publication and will appear shortly. Results of Chapter IV have been accepted for publication in the Research Journal of the Ravishankar University, Raipur.
During the period of my study I have derived inspiration and encouragement from various authors working in the field. Particular mention may be made of Dr. B.R. Bhonsle, D.Sc., Professor & Head of the Department of Mathematics, Govt. Engineering College, Jabalpur and of Dr. V.K. Varma, Professor & Head of the Department of Mathematics, Govt. Engineering College, Bilaspur who were kind enough to offer critical suggestions before submission of the work. My thanks are also due to Prof. N.A. Shastri, Professor Emeritus and Dr. R.S. Padvnis of Nagpur University for granting me library facilities in Nagpur.

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