PREFACE

The present thesis embodies the researches carried out by me since January 2002 under the kind supervision of Dr. A.P. Dwivedi, Retd. Professor & Head, Department of Mathematics, HBTI Kanpur and Dr. R.C.S. Chandel, Reader & Head, Department of Mathematics, D.V. (P.G.) College, Orai. The present thesis entitled "CERTAIN INTEGRAL AND SERIES EQUATIONS ARISING IN MIXED BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS" is now submitted to Bundelkhand University, Jhansi for the award of Ph.D. Degree.

The thesis comprises of seven chapters. First chapter is introductory giving various definitions and sources of integral and series equations. Second chapter deals with recent literature available on the topic. Third chapter finds solution of simultaneous dual integral equations. Triple integral equations are dealt in chapter four. Chapter five and six treat some series equations. Finally in chapter seven we have given application of triple integral equations in a crack problem of elasticity. All references used in the thesis are included at the end.

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(Praveen Pandey)