

**MATHEMATICAL MODELLING OF ELECTRICALLY  
CONDUCTING FLUID FLOW PROBLEMS IN  
PRESENCE OF MAGNETIC FIELD**

A THESIS SUBMITTED TO



**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA**

FOR THE AWARD OF THE DEGREE OF

**DOCTOR OF PHILOSOPHY**

IN

**MATHEMATICS**

BY

**MITAL HIREN MISTRY**

UNDER THE GUIDANCE OF

**PROF. (DR.) HARIBHAI R. KATARIA**

DEAN, FACULTY OF SCIENCE

PROFESSOR, DEPARTMENT OF MATHEMATICS

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

VADODARA-390002

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