

**CATION EXCHANGE SEPARATION OF  
SOME METAL IONS IN AQUEOUS  
ACETONE AMMONIUM TARTRATE MEDIUM**

**A DISSERTATION SUBMITTED TO  
SHIVAJI UNIVERSITY, KOLHAPUR.  
FOR THE DEGREE OF  
MASTER OF PHILOSOPHY  
IN CHEMISTRY**

**BY**  
**N. R. ANDHARE**  
**M. Sc.**  
**LECTURER IN CHEMISTRY,  
SHRI CHHATRAPATI SHIVAJI COLLEGE, OMERG**

**RESEARCH GUIDE**  
**DR. S. V. KULKARNI**  
**DEPARTMENT OF CHEMISTRY,  
SHIVAJI UNIVERSITY, KOLHAPUR,**

**MAY 1992**