

## GREETING

Completing my Ph. D. thesis is probably the most challenging activity of 27 years of my life. The best and tough moments of my research journey have been shared with many people. This thesis represents not only my work at research laboratory and at keyboard but it is a team work of great number of people whose contribution in assorted ways to the research and creation of the thesis during the six years of research from 2005 to 2011 as a post-graduate student and research scholar in the Department of Physics at Sardar Patel University. It has been great privileges to express my appreciation to them in my humble salutation.

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