

# PREFACE FOR BASIC MECHANICAL ENGINEERING

This book is intended to serve as a textbook of Civil and Mechanical Engineering. It has been thoroughly revised and necessary changes have been made to suit the syllabus requirements of all the four Anna Universities—Chennai, Coimbatore, Tirunelveli and Tiruchirapalli.

Throughout the text, an attempt has been made to present the subject matter in a simple, lucid and precise manner. Neat and clear diagrams, totaling to almost 200, supported by simple theoretical presentations help easy understanding of the concepts. Great care has been taken to make the text student-friendly and also teacher-friendly.

**Part 2** is divided into five chapters which cover the fundamentals of Power Plants, Steam Boilers, Steam Turbines, Pumps, IC Engines, Refrigeration and Air Conditioning.

The website of this book can be accessed at <http://www.mhhe.com/shanmugam/bcme> and contains university question papers.

I consider it a great honour to have the foreword written by Prof. T R Natesan, Former Director of Technical Education, Tamil Nadu.

I am deeply indebted to Tata McGraw Hill Education, particularly to Mr H R Nagaraja, for the speedy publication and excellent quality of the book. Any suggestions from the readers for the improvement of the book are welcome.

**G SHANMUGAM**