

# Preface

Reliability and safety analysis are the important application in the mathematical engineering. Nothing last forever is so is the life of engineering systems. The main reason of the failure of engineering system ranges from minor inconvenience to signify to economic loss and deaths. Designers, manufactures and end users attempt by employing efforts to minimize the occurrence of the failure. This field creates a wide range of problems due to their practical importance and give rise to the new development to create methods and can contain an interesting mathematical procedure. Reliability deals with the failure concept, whereas safety deals with the consequence of failure. Reliability engineering explores the failures to improve the performance of engineering systems. It plays a vital role in different sectors such as chemical, nuclear facilities and aerospace and can impose potential hazards. It also gains much more importance among practicing engineers and manufacturers. The subject of reliability engineering also appearing in several institutions and universities. It should also be used in many fields and as a particular interest to all electrical, electronic, mechanical, chemical, and industrial and so on. Reliability and safety are the core issues to be addressed during the design, operation, and maintenance of engineering systems. Through this book entitled “*Advance in Reliability and System Engineering*” the engineers have to gain a great knowledge and help them in the reliability courses. The book is meant for those who to take reliability and safety as a subject of study. The material is intended for an audience at the level of postgraduate or senior undergraduate students. That’s why reliability and safety is now as well recognized and rapidly developing branch of engineering.

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