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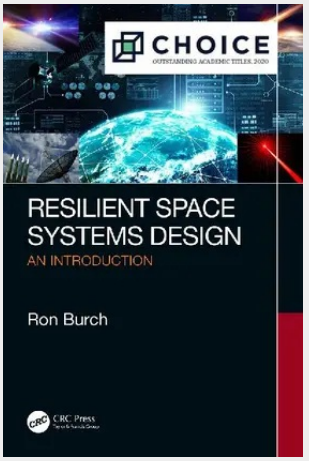
Resilient Space Systems Design

An Introduction

Recognized as a "Recommended" title by Choice for their November 2020 issue. Choice is a publishing unit at the Association of College & Research Libraries (ACR&L), a division of the American Library Association. Choice has been the acknowledged leader in the provision of objective, high-quality evaluations of nonfiction academic writing. Presenting a fundamental definition of resilience, the book examines the concept of resilience as it relates to space system design. The book establishes the required definitions, relates its place to existing state-of-the-art systems engineering practices, and explains the process and mathematical tools used to achieve a resilient design. It discusses a variety of potential threats and their impact upon a space system. By providing multiple, real-world examples to illustrate the application of the design methodology, the book covers the necessary techniques and tools, while guiding the reader through the entirety of the process. The book begins with space systems basics to ensure the reader is versed in the functions and components of the system prior to diving into the details of resilience. However, the text does not assume that the reader has an extensive background in the subject matter of resilience. This book is aimed at engineers and architects in the areas of aerospace, space systems, and space communications.

The book provides a fundamental definition of resilience and examines the concept of resilience as it relates to space system design. Including multiple, real-world examples to illustrate the application of the design methodology, the book guides the reader through the entirety of the process.



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