



Safety and Human Error in Engineering Systems

B.S. Dhillon

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In an approach that combines coverage of safety and human error into a single volume, **Safety and Human Error in Engineering Systems** eliminates the need to consult many different and diverse sources for those who need information about both topics. The book begins with an introduction to aspects of safety and human error and a discussion of mathematical concepts that builds understanding of the material presented in subsequent chapters.

The author describes the methods that can be used to perform safety and human error analysis in engineering systems and includes examples, along with their solutions, as well as problems to test reader comprehension. He presents a total of ten methods considered useful for performing safety and human error analysis in engineering systems. The book also covers safety and human error transportation systems, medical systems, and mining equipment as well as robots and software.

Nowadays, engineering systems are an important element of the world economy as each year billions of dollars are spent to develop, manufacture, and operate various types of engineering systems around the globe. A rise in accidental deaths has put the spotlight on the role human error plays in the safety and failure of these systems. Written by an expert in various aspects of healthcare, engineering management, design, reliability, safety, and quality, this book provides tools and techniques for improving engineering systems with respect to human error and safety.



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