Introduction to Probability and Statistics for Engineers

By Milan Holický

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The theory of probability and mathematical statistics is becoming an indispensable discipline in many branches of science and engineering. This is caused by increasing significance of various uncertainties affecting performance of complex technological systems. Fundamental concepts and procedures used in analysis of these systems are often based on the theory of probability and mathematical statistics.

The book sets out fundamental principles of the probability theory, supplemented by theoretical models of random variables, evaluation of experimental data, sampling theory, distribution updating and tests of statistical hypotheses. Basic concepts of Bayesian approach to probability and two-dimensional random variables, are also covered. Examples of reliability analysis and risk assessment of technological systems are used throughout the book to illustrate basic theoretical concepts and their applications.

The primary audience for the book includes undergraduate and graduate students of science and engineering, scientific workers and engineers and specialists in the field of reliability analysis and risk assessment. Except basic knowledge of undergraduate mathematics no special prerequisite is required.

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Review

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About the Author
Prof. Dr. Milan Holický got his civil engineering degree at the Czech Technical University in Prague, and doctor degree at the University of Waterloo, Canada. He is involved in the research of structural reliability and risk assessment. In 2010 he became Extraordinary Professor at the University of Stellenbosch, South Africa; in 2011 he was awarded the degree Honorary Doctor of Science and Engineering of Moscow State University of Civil Engineering.

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