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   Nota di contenuto   Chapter 1: Geo information technology of data processing in the
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                       Lithological Types of the Runovshchyna Area for Alpha and Beta Activity
                       -- Chapter 4: Pollution Spread Model in the Cascade of Ponds in the
                       Protected Areas -- Chapter 5: Using Mathematical, Experimental and
                       Statistical Modeling for Predicting of the Lubricant Layer Thickness in
                       Tribosystems -- Chapter 6: Simulation of Working Process of the
                       Electronic Brake System of the Heavy Vehicle -- Chapter 7: Defining
                       Pre-Emergency and Emergency Modes of Semiconductor Converters --
                       Chapter 8: . Generalized Method for Switching Processes Calculating in
                       High Frequency Pulse Converters of Electricity -- Chapter 9:
                       Identification of traffic abnormalities based on the estimation of
                       stationary parameters and detailing the wavelet function -- Chapter 10:
                       Development of Model for Load Impacts to the Database.

Sommario/riassunto

This book presents current investigations in the field of mathematical modeling and simulation to support the development of intelligent information systems in domains such as ecology and geology, manufacturing, project management, and safety of distributed information systems. The book will be of interest to developers of modern high-tech software complexes for situational control centers, based on mathematical modeling and simulation methods. In addition, it will appeal to software engineers and programmers, offering them new implementation and application methods. Gathering the latest research, prepared by leading scholars, and identifying promising new directions for solving complex scientific and practical problems, the book presents selected outcomes of the 14th International Scientific-Practical Conference, MODS2019, held in Chernihiv, Ukraine, on June 24 to 26, 2019.