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Autore	Varde Prabhakar V
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Altri autori (Persone)	VinodGopika JoshiN. S
Disciplina	621
Soggetti	Security systems Computers Mathematical models Engineering mathematics Engineering - Data processing Security Science and Technology Hardware Performance and Reliability Mathematical Modeling and Industrial Mathematics Mathematical and Computational Engineering Applications
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Nota di contenuto	A Support Vector Machine Model for Detection of Transients in Nuclear Reactor -- Reinforcement Learning for Mission Reliability Based Selective Maintenance Optimization -- Role of Ai in Anti-drone Systems: A Review -- Transient Identification in Nuclear Power Plants by Pca Based Neural Networks -- Internal Leakage Diagnosis of a Hydraulic Cylinder Using C-Istm Neural Network -- Assessment of Wind Forecasts from a Numerical Weather Prediction Model for Indian Npp Sites -- Development of Kalman Filter Based Source Term Estimation Model (Stem) -- Evaluation of Internal Fire Hazards in Indian Nuclear Power Plants -- A Novel Implementation of Tableau Software for Visualisation of Seismic Data from Himalayan Region -- Time-

frequency Analysis of Strong Ground Motions from the 1989 Loma Prieta Earthquake -- Prediction of Effective Duration of Vertical Ground Motions Based on Machine Learning Algorithms -- Rel Estimation of Igbt Modules under Power Cycling Stress -- Reliability and Cost-effectiveness Trade-offs in Hierarchical Industrial Networks -- Investigation of Primary Radiation Damage in Nanocrystalline Tantalum Using Machine-learning Interatomic Potential: An Atomistic Simulation Study -- Performance Evaluation of Silicon Carbide (Sic) Power Mosfets under Gamma Radiation.

Sommario/riassunto

This book presents the proceedings of the 5th International Conference on Reliability Safety & Hazard-2024, held in Mumbai during February 21–24, 2024. It covers the latest advances in artificial intelligence and machine learning in development of risk-conscious culture. Various topics covered in this volume are reliability prediction, precursor event analysis, fuzzy reliability, structural reliability, passive system reliability, digital system reliability, risk-informed approach to decision making, dynamic PSA, uncertainty and sensitivity modeling, among others. The book is a valuable resource for researchers and professionals working in both academia and industry in the areas of complex systems, safety-critical systems, and risk-based engineering.
