

Rutgers University Industrial Engineering

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Facebook is no stranger to controversy, but the past few weeks have
been particularly disreputable for the tech giant.

Frances Haugen exposes Facebook: Effects of surveillance capitalism
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Two incumbents and three newcomers will vie for the three, three-year

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terms available on the Woodbridge Board of Education in the upcoming election. The general election is on Nov. 2. Board member ...

Five candidates will vie for three seats available on Woodbridge BOE in November election

It's been over two decades since a Democrat has served in the state's 25th Legislative District, but a trio of candidates is hoping to change all that in the 2021 general election. For state Senate, ...

25th District Democrats seek to end GOP domination

Scalability and connectivity of PLCs and operator interfaces played a key role as TMEIC integrated 86 new container automatic stacking cranes for the Port of Virginia.

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An effective reliability programme is an essential component of every product's design, testing and efficient production. From the failure analysis of a microelectronic device to software fault tolerance and from the accelerated life testing of mechanical components to hardware verification, a common underlying philosophy of reliability applies. Defining both fundamental and applied work across the entire systems reliability arena, this state-of-the-art reference presents methodologies for quality, maintainability and dependability. Featuring: Contributions from 60 leading reliability experts in academia and industry giving comprehensive and authoritative coverage. A distinguished international Editorial Board ensuring clarity and precision throughout. Extensive references to the theoretical foundations, recent research and future directions described in each chapter. Comprehensive subject index providing maximum utility to the reader. Applications and examples across all branches of engineering including IT, power, automotive and aerospace sectors. The handbook's cross-disciplinary scope will ensure that it serves as an indispensable tool for researchers in industrial, electrical, electronics, computer, civil, mechanical and systems engineering. It will also aid professional engineers to find creative

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reliability solutions and management to evaluate systems reliability and to improve processes. For student research projects it will be the ideal starting point whether addressing basic questions in communications and electronics or learning advanced applications in micro-electro-mechanical systems (MEMS), manufacturing and high-assurance engineering systems.

Provides an in-depth understanding of the fundamentals of a wide range of state-of-the-art materials manufacturing processes Modern manufacturing is at the core of industrial production from base materials to semi-finished goods and final products. Over the last decade, a variety of innovative methods have been developed that allow for manufacturing processes that are more versatile, less energy-consuming, and more environmentally friendly. This book provides readers with everything they need to know about the many manufacturing processes of today. Presented in three parts, Modern Manufacturing Processes starts by covering advanced manufacturing forming processes such as sheet forming, powder forming, and injection molding. The second part deals with thermal and energy-assisted manufacturing processes, including warm and hot

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hydrostamping. It also covers high speed forming (electromagnetic, electrohydraulic, and explosive forming). The third part reviews advanced material removal process like advanced grinding, electro-discharge machining, micro milling, and laser machining. It also looks at high speed and hard machining and examines advances in material modeling for manufacturing analysis and simulation. Offers a comprehensive overview of advanced materials manufacturing processes Provides practice-oriented information to help readers find the right manufacturing methods for the intended applications Highly relevant for material scientists and engineers in industry Modern Manufacturing Processes is an ideal book for practitioners and researchers in materials and mechanical engineering.

Biomedical Devices: Design, Prototyping, and Manufacturing features fundamental discussions of all facets of materials processing and manufacturing processes across a wide range of medical devices and artificial tissues. Represents the first compilation of information on the design, prototyping, and manufacture of medical devices into one volume Offers in-depth coverage of medical devices, beginning with an introductory overview through to the design, manufacture, and applications Features examples of a variety of medical applications of devices, including biopsy micro forceps, micro-needle arrays,

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wrist implants, spinal spacers, and fixtures Provides students, doctors, scientists, and technicians interested in the development and applications of medical devices the ideal reference source

Get a firm handle on the engineering reliability process with this insightful and complete resource The newly and thoroughly revised 3rd Edition of Reliability Engineering delivers a comprehensive and insightful analysis of this crucial field. Accomplished author, professor, and engineer, Elsayed. A. Elsayed includes new examples and end-of-chapter problems to illustrate concepts, new chapters on resilience and the physics of failure, revised chapters on reliability and hazard functions, and more case studies illustrating the approaches and methodologies described within. The book combines analyses of system reliability estimation for time independent and time dependent models with the construction of the likelihood function and its use in estimating the parameters of failure time distribution. It concludes by addressing the physics of failures, mechanical reliability, and system resilience, along with an explanation of how to ensure reliability objectives by providing preventive and scheduled maintenance and warranty policies. This new edition of Reliability Engineering covers a wide range of topics, including: Reliability and hazard functions, like the Weibull Model,

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the Exponential Model, the Gamma Model, and the Log-Logistic Model, among others System reliability evaluations, including parallel-series, series-parallel, and mixed parallel systems The concepts of time- and failure-dependent reliability within both repairable and non-repairable systems Parametric reliability models, including types of censoring, and the Exponential, Weibull, Lognormal, Gamma, Extreme Value, Half-Logistic, and Rayleigh Distributions Perfect for first-year graduate students in industrial and systems engineering, Reliability Engineering, 3rd Edition also belongs on the bookshelves of practicing professionals in research laboratories and defense industries. The book offers a practical and approachable treatment of a complex area, combining the most crucial foundational knowledge with necessary and advanced topics.

Combining theory, methodology, and applications in a unified survey, this important reference/text presents the most recent results in robust regression analysis, including properties of robust regression techniques, computational issues, forecasting, and robust ridge regression. It provides useful case studies so that students and engineers can apply these techniques to forecasting, quantitative business analysis, econometrics, marketing, statistics, and demand modeling. Robust Regression: Analysis and Applications characterizes

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robust estimators in terms of how much they weight each observation ... discusses generalized properties of L [subscript p]-estimators ... includes an algorithm for identifying outliers using least absolute value criterion in regression modeling ... reviews redescending M -estimators ... studies L [subscript 1] linear regression ... proposes the best linear unbiased estimators for fixed parameters and random errors in the mixed linear model ... summarizes known properties of L [subscript 1] estimators for time series analysis ... examines ordinary least squares, latent root regression, and a robust regression weighting scheme ... and evaluates results from five different robust ridge regression estimators. Containing 120 tables and diagrams plus numerous bibliographic citations, Robust Regression: Analysis and Applications is the leading reference for applied statisticians, operations researchers, econometricians, marketing forecasters, business administration and management scientists, and industrial engineers as well as a text for graduate statistics or economics courses. Book jacket.

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