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**experimental design
concepts as well as the
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creating product/process
designs that successfully
incorporate customer
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**and reduce costs. Further
management-oriented
topics of discussion
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for a year-long course,
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and are natural extensions
and consequences of
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mathematics background. It
can also be used in a way
that stresses the more
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statistical concepts and
deriving reasonable
statistical procedures for a
variety of situations, and less
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transformations and
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observations; and polynomial regression models and their variations. The book also includes material on regression models with autocorrelated errors, bootstrapping

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technology. With it have come vast amounts of data in a variety of fields such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the

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development of new tools in the field of statistics, and spawned new areas such as data mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but

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are often expressed with
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framework. While the
approach is statistical, the

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emphasis is on concepts rather than mathematics. Many examples are given, with a liberal use of color graphics. It should be a valuable resource for statisticians and anyone

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interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks,

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support vector machines,
classification trees and
boosting---the first
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major new edition features
many topics not covered in

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the original, including
graphical models, random
forests, ensemble methods,
least angle regression & path
algorithms for the lasso, non-
negative matrix
factorization, and spectral

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clustering. There is also a chapter on methods for “wide” data (p bigger than n), including multiple testing and false discovery rates.

Trevor Hastie, Robert Tibshirani, and Jerome

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Friedman are professors of statistics at Stanford University. They are prominent researchers in this area: Hastie and Tibshirani developed generalized additive models

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and wrote a popular book of that title. Hastie co-developed much of the statistical modeling software and environment in R/S-PLUS and invented principal curves and surfaces.

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Tibshirani proposed the lasso and is co-author of the very successful *An Introduction to the Bootstrap*. Friedman is the co-inventor of many data-mining tools including CART, MARS, projection pursuit and

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modulation, channel
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To address the modeling and

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control of smart grid renewable
energy system into electric
power systems, this book
integrates three areas of
electrical engineering: power
system engineering, control
systems engineering and power

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electronics The approach to the integration of these three areas differs from classical methods. Due to complexity of this task, the author has decided to present the basic concepts, and then present a simulation test

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bed in matlab to use these
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concepts to solve a basic
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each chapter has three parts:
first a problem of integration is
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described. Then, the
mathematical model of the same
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chapter ends with a set of

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engineers can apply and
customize computer
programs to help them plan
and operate systems. The
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and includes references
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systems. It concentrates
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systems analysis. In the
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systems into being,
beginning with the
identification of a need
and extending through
requirements
determination, functional
analysis and allocation,

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operation and support, and
disposal. In the second
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process of analysis,
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now in existence can be
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