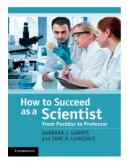


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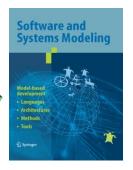


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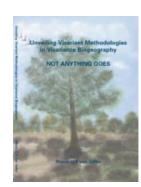


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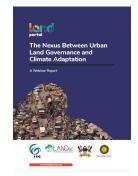
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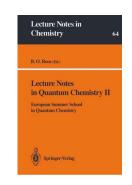
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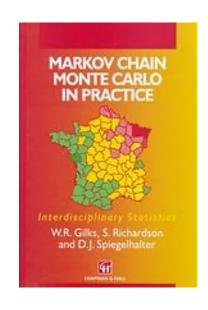


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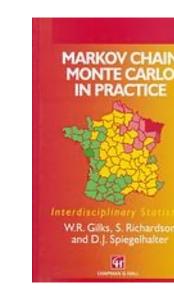




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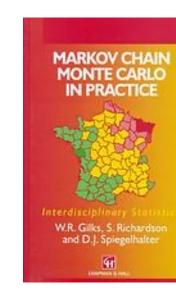
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BOOK



Gilks, W. R., Richardson, S., & Spiegelhalter, D. J. (1996). *Markov chain Monte Carlo in practice*. London: Chapman & Hall.



A atria; is any sequence of symbols that is interpreted to represent a precise meaning. Written language, including this sentence, provides string in which information messages may be expressed as a sequence of world ceals of which is a sequence of letters). However, natural languages such as English may give rise to ambiguous meaning. For example, consider the following statement: "Time files like an arrow rituil files like a baman." In computational estings, it is important that strings (along with their encoding and interpretation) have discrete, precise meanings. Formal languages provide the general backdops for our discussion of strings.

A cornal goal when analyzing cyber data is to seek a string representation the problem's objects so that similarities in their string representations will prove a meaningful result for the analysis problem at hand. To emphasize this power consider signature based detection of cyber attacks and how the problem determining safety (or that a system may be compounded) may be considered and their continuous proposed to the considered and their continuous problems. The considered and their continuous contin

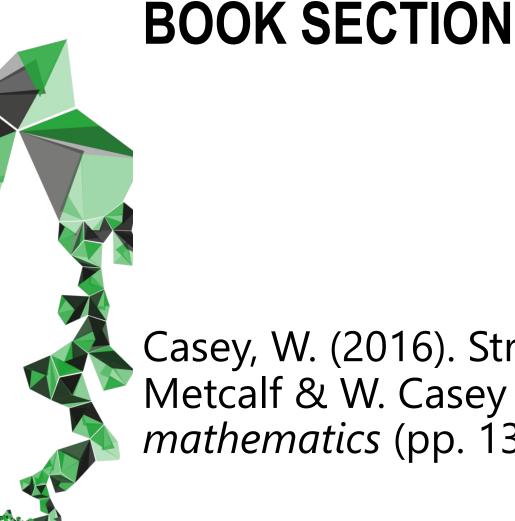
8.1.1 CYBER DATA

Many different types of data arise from cyber security scenarios—bere we will identify a few pointent data pixes and outline an organizational framework for thinking about cyber data. Generally, within cyber security scenarios the objects studied may or may not here much known about them. One way to finish about information (known and unknown) for digital objects will be similar to that of the companies of the companies of the companies of the companies of the host of the companies of the companies of the companies of the companies object may have partial or disputed information concerning its provenance. For edigital objects we consider processance similarly; there can also be incomplete

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8.1 STRING ANALYSIS AND CYBER DATA

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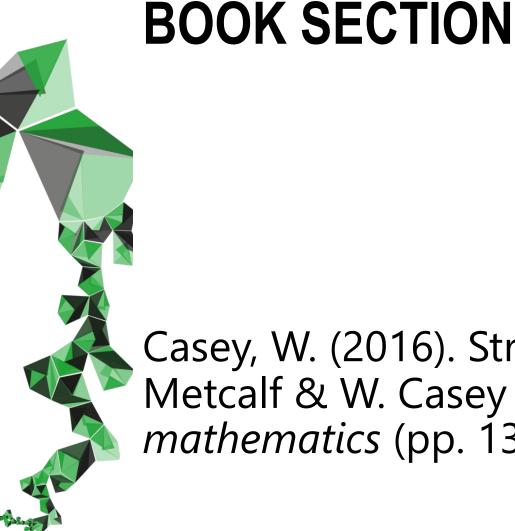
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String analysis for cyber strings

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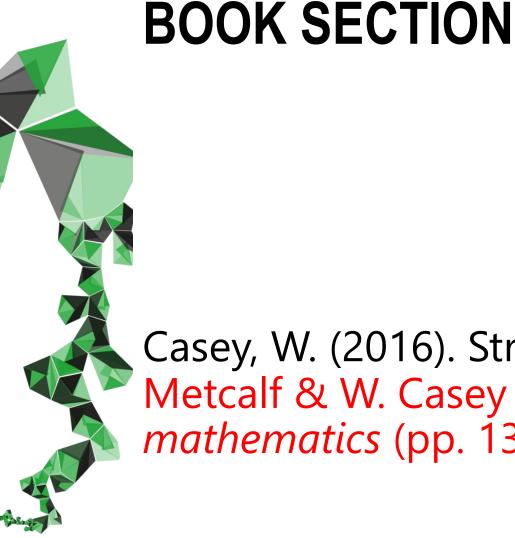
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JOURNAL ARTICLE



Neural Computing and Applications (2020) 32:9621-964

ORIGINAL ARTICLE



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Abstract

It is a well-known fact that improving forecasting accuracy is an important yet often challenging issue. Extensive research has been conducted using neural network (NN) to improve their forecasting accuracy, in persent, the imputs to NNs are the auto-represent (i.e. lagged variables) of one or more time series. In addition, either network compits or network forecasting neural research in the contraction of th

A novel error-output recurrent neural network model for time series

Keywords Recurrent neural network · Error-output feedbacks · Moving-average · NARMA · Ridge polynomial ne network · Forecasting · Nonlinear time series

1 Introductio

Time series is a sequence of observations observ sequentially over time [10]. Examples of time series de are the daily exchange rate, monthly sales, and ann runoff. Forecasting time series data are important becar of the role of forecasting in helping to make effective a efficient naturation.

In the field of forecasting, numerous models have been employed for time series forecasting such as adaptive neuro-fuzzy inference system, support vector regression, and neural networks [66, 76, 82]. Neural networks (NNs)

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Waddah Waheeb

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