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random vector then its expectation is $EX = (Ex_1, \dots, Ex_k)^T$ and its covariance matrix is

$Cov(X) = E(X - EX)(X - EX)^T$. Notice that a covariance matrix is always symmetric

$Cov(X)^T = Cov(X)$

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Harman and $= \text{diag}(\$

$1; \dots; p)$ is the diagonal

matrix with the

eigenvalues on the

diagonal. If $1 > 2 > \dots > p,$

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then the eigenvectors u_1, \dots, u_p are uniquely defined (up to a possible change of the sign). A $p \times p$ matrix is positive definite, if it is symmetric and satisfies

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principal component analysis, factor analysis, canonical correlation analysis, and classification and clustering methods.

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Notes Adrian Bevan ,

These notes have been developed as ancillary material used for both

BABAR analysis school lectures, and as part of an undergraduate

course in Statistical

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techniques. They

provide a basic

introduction to the topic

of multivariate analysis.

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$$E(x) = \mu \quad E(x) = \mu$$

denotes the mean and

$$\text{Var}(x) = 2\text{Var}(x)$$

= 2 the variance of xx .

Multivariate random

vector of dimension d :

$$x = (x_1, x_2, \dots, x_d)^T$$

$$F. x = (x_1, x_2, \dots, x_d)$$

T $F. xx$ is vector

valued random variable.

The vector xx is column

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vector (=matrix of size $d \times 1$).

1 Multivariate random variables |_main.utf8

Here is one possible characterisation of the multivariate normal distribution: X is multivariate normal if and only if for any x ed vector a , $a^T X$ is univariate normal.

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vector X . Take X_1 as the first p_1 elements of X , and X_2 as the last p_2 elements, where $p = p_1 + p_2$. Assume as before that $X \sim N(\mu; V)$, and now suppose that $T = (T_1; T_2)$,

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drawn from a variety of subjects such as the biological sciences, economics, and the social sciences. Where possible, technical details and proofs are deferred to an appendix in order to provide an accessible account for non-experts. Topics covered include: models for multi-categorical responses, model

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checking, time series
and longitudinal data,
random effects models,
and state-space models.

Throughout, the
authors have taken great
pains to discuss the
underlying theoretical
ideas in ways that relate
well to the data at hand.
As a result, numerous
researchers whose work
relies on the use of these
models will find this an

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invaluable account.

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elementary discrete

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engineering. It

emphasizes

mathematical definitions

and proofs as well as

applicable methods.

Topics include formal

logic notation, proof

methods; induction, well-

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ordering; sets, relations;
elementary graph
theory; integer
congruences; asymptotic
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and combinations,
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may also be covered,
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machines and
invariants; recurrences;
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The statistical analysis of
discrete multivariate
data has received a great
deal of attention in the
statistics literature over
the past two decades.

The development
of appropriate models is
the common theme of
books such as Cox

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(1970), Haberman
(1974, 1978, 1979),
Bishop et al. (1975),
Gokhale and Kullback
(1978), Upton (1978),
Fienberg (1980),
Plackett (1981), Agresti
(1984), Goodman
(1984), and Freeman
(1987). The objective of
our book differs from
those listed above.

Rather than
concentrating on model

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building, our intention is to describe and assess the goodness-of-fit statistics used in the model verification part of the inference process.

Those books that emphasize model development tend to assume that the model can be tested with one of the traditional goodness-of-fit tests 2 2 (e.g., Pearson's X^2 or the

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loglikelihood ratio G)
using a chi-squared
critical value. However,
it is well known that this
can give a poor
approximation in many
circumstances. This
book provides the
reader with a unified
analysis of the
traditional goodness-of-
fit tests, describing their
behavior and relative
merits as well as

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introducing some new test statistics. The power-divergence family of statistics (Cressie and Read, 1984) is used to link the traditional test statistics through a single real-valued parameter, and provides a way to consolidate and extend the current fragmented literature. As a by-product of our analysis, a new 2 2

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statistic emerges

"between" Pearson's X^2 and the loglikelihood ratio G that has some valuable properties.

This title represents an ambitious undertaking, namely a broad view on the nature of intelligent decision making, which is characterized by the use of models and methods in the

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framework of decision support for management. With this title we want to reflect the scope of our field, but, at the same time, honor our colleague th Paul Stahly on the occasion of his 65 birthday. Paul Stahly has over decades invested his energy in developing the area of Operations Research

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from such a broad point of view. He has done this not only at his chairs at the HSG / University of St. Gallen and the University of Linz, but also on a broad international level as editor of ITOR and as influential member of all the Operations Research societies in the German speaking countries. He has, in

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particular, enriched our area by application-oriented research and industrial projects in fields such as logistics, emergency planning, [mance, and others, and he was pivotal in strengthening the cooperation between the national and international OR societies, particular in the German speaking

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area. VI Consequently, many colleagues who partly cooperated very closely with him, have contributed to this monograph. Some of these contributions have been presented at a colloquium in January 2001 in St. Gallen in honor of Paul Stahly. This colloquium was attended by many colleagues coming from

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Germany, Austria,
Switzerland, Italy and
even from the United
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experimental scientists in a variety of disciplines, this market-leading text offers a readable introduction to the statistical analysis of multivariate observations. Its primary goal is to impart the knowledge necessary to make proper interpretations and select appropriate techniques for analyzing

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