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Titolo	Libya [[electronic resource]] : communications / / World Trade Press
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ISBN	1-60780-557-X
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Descrizione fisica	1 online resource (23 p.)
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Cover title.
Sommario/riassunto	Get all three comprehensive reports bundled into one for a complete media and communications profile of Libya. An excellent source of practical information, this profile offers an extensive dialing guide with city codes, a listing of ISPs and Internet cafes, profiles of the major media outlets (with contact info!) and more.

2. Record Nr.	UNINA9910829824603321
Autore	Turner James E
Titolo	Statistical methods in radiation physics [[electronic resource] /] / James E. Turner, Darryl J. Downing and James S. Bogard
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Altri autori (Persone)	DowningDarryl J BogardJames S
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Nota di contenuto	Statistical Methods in Radiation Physics; Contents; Preface; 1 The Statistical Nature of Radiation, Emission, and Interaction; 1.1 Introduction and Scope; 1.2 Classical and Modern Physics - Determinism and Probabilities; 1.3 Semiclassical Atomic Theory; 1.4 Quantum Mechanics and the Uncertainty Principle; 1.5 Quantum Mechanics and Radioactive Decay; Problems; 2 Radioactive Decay; 2.1 Scope of Chapter; 2.2 Radioactive Disintegration - Exponential Decay; 2.3 Activity and Number of Atoms; 2.4 Survival and Decay Probabilities of Atoms; 2.5 Number of Disintegrations - The Binomial Distribution 2.6 CritiqueProblems; 3 Sample Space, Events, and Probability; 3.1 Sample Space; 3.2 Events; 3.3 Random Variables; 3.4 Probability of an Event; 3.5 Conditional and Independent Events; Problems; 4 Probability Distributions and Transformations; 4.1 Probability Distributions; 4.2 Expected Value; 4.3 Variance; 4.4 Joint Distributions; 4.5 Covariance; 4.6 Chebyshev's Inequality; 4.7 Transformations of Random Variables; 4.8 Bayes' Theorem; Problems; 5 Discrete Distributions; 5.1

Introduction; 5.2 Discrete Uniform Distribution; 5.3 Bernoulli
 Distribution; 5.4 Binomial Distribution
 5.5 Poisson Distribution 5.6 Hypergeometric Distribution; 5.7 Geometric
 Distribution; 5.8 Negative Binomial Distribution; Problems; 6
 Continuous Distributions; 6.1 Introduction; 6.2 Continuous Uniform
 Distribution; 6.3 Normal Distribution; 6.4 Central Limit Theorem; 6.5
 Normal Approximation to the Binomial Distribution; 6.6 Gamma
 Distribution; 6.7 Exponential Distribution; 6.8 Chi-Square Distribution;
 6.9 Student's t-Distribution; 6.10 F Distribution; 6.11 Lognormal
 Distribution; 6.12 Beta Distribution; Problems; 7 Parameter and Interval
 Estimation; 7.1 Introduction
 7.2 Random and Systematic Errors 7.3 Terminology and Notation; 7.4
 Estimator Properties; 7.5 Interval Estimation of Parameters; 7.5.1
 Interval Estimation for Population Mean; 7.5.2 Interval Estimation for
 the Proportion of Population; 7.5.3 Estimated Error; 7.5.4 Interval
 Estimation for Poisson Rate Parameter; 7.6 Parameter Differences for
 Two Populations; 7.6.1 Difference in Means; 7.6.1.1 Case 1: σ_x and
 σ_y Known; 7.6.1.2 Case 2: σ_x and σ_y Unknown, but Equal ($=\sigma$);
 7.6.1.3 Case 3: σ_x and σ_y Unknown and Unequal; 7.6.2 Difference
 in Proportions; 7.7 Interval Estimation for a Variance
 7.8 Estimating the Ratio of Two Variances 7.9 Maximum Likelihood
 Estimation; 7.10 Method of Moments; Problems; 8 Propagation of Error;
 8.1 Introduction; 8.2 Error Propagation; 8.3 Error Propagation
 Formulas; 8.3.1 Sums and Differences; 8.3.2 Products and Powers;
 8.3.3 Exponentials; 8.3.4 Variance of the Mean; 8.4 A Comparison of
 Linear and Exact Treatments; 8.5 Delta Theorem; Problems; 9
 Measuring Radioactivity; 9.1 Introduction; 9.2 Normal Approximation to
 the Poisson Distribution; 9.3 Assessment of Sample Activity by
 Counting; 9.4 Assessment of Uncertainty in Activity
 9.5 Optimum Partitioning of Counting Times

Sommario/riassunto

This statistics textbook, with particular emphasis on radiation
 protection and dosimetry, deals with statistical solutions to problems
 inherent in health physics measurements and decision making. The
 authors begin with a description of our current understanding of the
 statistical nature of physical processes at the atomic level, including
 radioactive decay and interactions of radiation with matter. Examples
 are taken from problems encountered in health physics, and the
 material is presented such that health physicists and most other
 nuclear professionals will more readily understand the app