

## Sums of Independent Random Variables (2/2)

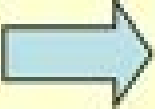
- If  $X$  and  $Y$  are **independent continuous random variables**, the PDF  $f_W(w)$  of  $W = X + Y$  can be obtained by

$$f_W(w) = \int_{-\infty}^{\infty} f_X(x) f_Y(w-x) dx \quad \text{Convolution of PMFs of } X \text{ and } Y$$

(also equivalent to  $\int_{-\infty}^{\infty} f_X(w-y) f_Y(y) dy$ )

Note that

$$\begin{aligned} \mathbf{P}(W \leq w | X = x) &= \mathbf{P}(X + Y \leq w | X = x) \\ &= \mathbf{P}(x + Y \leq w) \\ &= \mathbf{P}(Y \leq w - x) \end{aligned}$$




$$\Rightarrow F_{W|X}(w|x) = F_Y(w-x)$$

Differentiate the CDFs of both sides with respect to  $w$

$$\Rightarrow f_{W|X}(w|x) = f_Y(w-x)$$

Applying the multiplication (chain) rule, we have

$$\begin{aligned} f_{W,X}(w,x) &= f_X(x) f_{W|X}(w|x) \\ &= f_X(x) f_Y(w-x) \end{aligned}$$



Finally, by marginalization, we can have

$$\begin{aligned} f_W(w) &= \int_{-\infty}^{\infty} f_{W,X}(w,x) dx \\ &= \int_{-\infty}^{\infty} f_X(x) f_Y(w-x) dx \end{aligned}$$

# Symptotic Behaviour Of Linearly Transformed Sums Of Random Variables

**A. A. Borovkov**



## **Symptotic Behaviour Of Linearly Transformed Sums Of Random Variables:**

Asymptotic Behaviour of Linearly Transformed Sums of Random Variables V. V. Buldygin, Serguei Solntsev, 1997-06-30

Asymptotic Behaviour of Linearly Transformed Sums of Random Variables V.V. Buldygin, Serguei Solntsev, 2012-12-06

Limit theorems for random sequences may conventionally be divided into two large parts one of them dealing with convergence of distributions weak limit theorems and the other with almost sure convergence that is to say with asymptotic properties of almost all sample paths of the sequences involved strong limit theorems Although either of these directions is closely related to another one each of them has its own range of specific problems as well as the own methodology for solving the underlying problems This book is devoted to the second of the above mentioned lines which means that we study asymptotic behaviour of almost all sample paths of linearly transformed sums of independent random variables vectors and elements taking values in topological vector spaces In the classical works of P Levy A Ya Khintchine A N Kolmogorov P Hartman A Wintner W Feller Yu V Prokhorov and M Loeve the theory of almost sure asymptotic behaviour of increasing scalar normed sums of independent random variables was constructed This theory not only provides conditions of the almost sure convergence of series of independent random variables but also studies different versions of the strong law of large numbers and the law of the iterated logarithm One should point out that even in this traditional framework there are still problems which remain open while many definitive results have been obtained quite recently

**Cognitive Networked Sensing and Big Data** Robert Qiu, Michael Wicks, 2013-08-04 Wireless Distributed Computing and Cognitive Sensing defines high dimensional data processing in the context of wireless distributed computing and cognitive sensing This book presents the challenges that are unique to this area such as synchronization caused by the high mobility of the nodes The author will discuss the integration of software defined radio implementation and testbed development The book will also bridge new research results and contextual reviews Also the author provides an examination of large cognitive radio network hardware testbed distributed sensing and distributed computing

*Limit Theorems for Random Fields with Singular Spectrum* Nikolai Leonenko, 1999-02-28 This book presents limit theorems for nonlinear functionals of random fields with singular spectrum on the basis of various asymptotic expansions This book will be of interest to mathematicians who use random fields in engineering or other applications

**Geometric Sums: Bounds for Rare Events with Applications** Vladimir V. Kalashnikov, 2013-04-17 This book reviews problems associated with rare events arising in a wide range of circumstances treating such topics as how to evaluate the probability an insurance company will be bankrupted the lifetime of a redundant system and the waiting time in a queue Well grounded unique mathematical evaluation methods of basic probability characteristics concerned with rare events are presented which can be employed in real applications as the volume also contains relevant numerical and Monte Carlo methods The various examples tables figures and algorithms will also be appreciated Audience This work will be useful to graduate students researchers and specialists interested in applied

probability simulation and operations research      Theory of Random Sets Ilya Molchanov, 2017-12-14 This monograph now in a thoroughly revised second edition offers the latest research on random sets It has been extended to include substantial developments achieved since 2005 some of them motivated by applications of random sets to econometrics and finance The present volume builds on the foundations laid by Matheron and others including the vast advances in stochastic geometry probability theory set valued analysis and statistical inference It shows the various interdisciplinary relationships of random set theory within other parts of mathematics and at the same time fixes terminology and notation that often vary in the literature establishing it as a natural part of modern probability theory and providing a platform for future development It is completely self contained systematic and exhaustive with the full proofs that are necessary to gain insight Aimed at research level Theory of Random Sets will be an invaluable reference for probabilists mathematicians working in convex and integral geometry set valued analysis capacity and potential theory mathematical statisticians in spatial statistics and uncertainty quantification specialists in mathematical economics econometrics decision theory and mathematical finance and electronic and electrical engineers interested in image analysis      **Metric Characterization of Random Variables and Random Processes** Valerii Vladimirovich Buldygin, I. V. Kozachenko, 2000-01-01 The topic covered in this book is the study of metric and other close characteristics of different spaces and classes of random variables and the application of the entropy method to the investigation of properties of stochastic processes whose values or increments belong to given spaces The following processes appear in detail pre Gaussian processes shot noise processes representable as integrals over processes with independent increments quadratically Gaussian processes and in particular correlogram type estimates of the correlation function of a stationary Gaussian process jointly strictly sub Gaussian processes etc The book consists of eight chapters divided into four parts The first part deals with classes of random variables and their metric characteristics The second part presents properties of stochastic processes imbedded into a space of random variables discussed in the first part The third part considers applications of the general theory The fourth part outlines the necessary auxiliary material Problems and solutions presented show the intrinsic relation existing between probability methods analytic methods and functional methods in the theory of stochastic processes The concluding sections Comments and References gives references to the literature used by the authors in writing the book      *Weak Convergence of Measures* Vladimir I. Bogachev, 2024-07-29 This book provides a thorough exposition of the main concepts and results related to various types of convergence of measures arising in measure theory probability theory functional analysis partial differential equations mathematical physics and other theoretical and applied fields Particular attention is given to weak convergence of measures The principal material is oriented toward a broad circle of readers dealing with convergence in distribution of random variables and weak convergence of measures The book contains the necessary background from measure theory and functional analysis Large complementary sections aimed at researchers present the most important recent achievements More than 100 exercises

ranging from easy introductory exercises to rather difficult problems for experienced readers are given with hints solutions or references Historic and bibliographic comments are included The target readership includes mathematicians and physicists whose research is related to probability theory mathematical statistics functional analysis and mathematical physics

Topological Vector Spaces and Their Applications V.I. Bogachev,O.G. Smolyanov,2017-05-16 This book gives a compact exposition of the fundamentals of the theory of locally convex topological vector spaces Furthermore it contains a survey of the most important results of a more subtle nature which cannot be regarded as basic but knowledge which is useful for understanding applications Finally the book explores some of such applications connected with differential calculus and measure theory in infinite dimensional spaces These applications are a central aspect of the book which is why it is different from the wide range of existing texts on topological vector spaces Overall this book develops differential and integral calculus on infinite dimensional locally convex spaces by using methods and techniques of the theory of locally convex spaces The target readership includes mathematicians and physicists whose research is related to infinite dimensional analysis

*Asymptotic Analysis of Random Walks* A. A. Borovkov,2020-10-29 This is a companion book to *Asymptotic Analysis of Random Walks Heavy Tailed Distributions* by A A Borovkov and K A Borovkov Its self contained systematic exposition provides a highly useful resource for academic researchers and professionals interested in applications of probability in statistics ruin theory and queuing theory The large deviation principle for random walks was first established by the author in 1967 under the restrictive condition that the distribution tails decay faster than exponentially A close assertion was proved by S R S Varadhan in 1966 but only in a rather special case Since then the principle has always been treated in the literature only under this condition Recently the author jointly with A A Mogulskii removed this restriction finding a natural metric for which the large deviation principle for random walks holds without any conditions This new version is presented in the book as well as a new approach to studying large deviations in boundary crossing problems Many results presented in the book obtained by the author himself or jointly with co authors are appearing in a monograph for the first time

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*Proceedings of the Bakuriani Colloquium in Honour of Yu.V. Prohorov, Bakuriani, Georgia, USSR, 24 February-4 March, 1990* V. V. Sazonov,T. Shervashidze,2020-05-05 No detailed description available for Proceedings of the Bakuriani Colloquium in Honour of Yu V Prohorov Bakuriani Georgia USSR 24 February 4 March 1990

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*Asymptotic Techniques for Use in Statistics* O. E. Barndorff-Nielsen,D. R. Cox,1989-03 The use in statistical theory of approximate arguments based on such methods as local linearization the delta

method and approximate normality has a long history. Such ideas play at least three roles. First, they may give simple approximate answers to distributional problems where an exact solution is known in principle but difficult to implement. The second role is to yield higher order expansions from which the accuracy of simple approximations may be assessed and where necessary improved. Thirdly, the systematic development of a theoretical approach to statistical inference that will apply to quite general families of statistical models demands an asymptotic formulation as far as possible, one that will recover exact results where these are available. The approximate arguments are developed by supposing that some defining quantity, often a sample size but more generally an amount of information, becomes large. It must be stressed that this is a technical device for generating approximations whose adequacy always needs assessing rather than a physical limiting notion. Of the three roles outlined above, the first two are quite close to the traditional roles of asymptotic expansions in applied mathematics, and much of the very extensive literature on the asymptotic expansion of integrals and of the special functions of mathematical physics is quite directly relevant, although the recasting of these methods into a probability mould is quite often enlightening.

*International Encyclopedia of Statistical Science* Miodrag Lovric, 2025-06-19. The International Encyclopedia of Statistical Science stands as a monumental effort to enrich statistics education globally, particularly in regions facing educational challenges. By amalgamating the expertise of over 700 authors from 110 countries, including Nobel Laureates and presidents of statistical societies, it offers an unparalleled resource for readers worldwide. This encyclopedia is not just a collection of entries; it is a concerted effort to revive statistics as a vibrant critical field of study and application. Providing a comprehensive and accessible account of statistical terms, methods, and applications, it enables readers to gain a quick insight into the subject regardless of their background. This work serves to refresh and expand the knowledge of researchers, managers, and practitioners, highlighting the relevance and applicability of statistics across various fields, from economics and business to healthcare and public policy. Furthermore, it aims to inspire students by demonstrating the significance of statistics in solving real-world problems, thus encouraging a new generation to explore and contribute to the field.

Current Index to Statistics, Applications, Methods and Theory, 1997. The Current Index to Statistics (CIS) is a bibliographic index of publications in statistics, probability, and related fields.

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