

1. Record Nr.	UNINA9910141367303321
Autore	Muldowney P (Patrick), <1946->
Titolo	A modern theory of random variation : with applications in stochastic calculus, financial mathematics, and Feynman integration / / Patrick Muldowney
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2012
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Edizione	[1st edition]
Descrizione fisica	1 online resource (545 p.)
Classificazione	MAT034000
Disciplina	519.2/3
Soggetti	Random variables Calculus of variations Path integrals Mathematical analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Modern Theory of Random Variation: With Applications in Stochastic Calculus, Financial Mathematics, and Feynman Integration; Contents; Preface; Symbols; 1 Prologue; 1.1 About This Book; 1.2 About the Concepts; 1.3 About the Notation; 1.4 Riemann, Stieltjes, and Burkill Integrals; 1.5 The -Complete Integrals; 1.6 Riemann Sums in Statistical Calculation; 1.7 Random Variability; 1.8 Contingent and Elementary Forms; 1.9 Comparison With Axiomatic Theory; 1.10 What Is Probability?; 1.11 Joint Variability; 1.12 Independence; 1.13 Stochastic Processes; 2 Introduction 2.1 Riemann Sums in Integration2.2 The -Complete Integrals in Domain $[0,1]$ ; 2.3 Divisibility of the Domain $[0,1]$ ; 2.4 Fundamental Theorem of

Calculus; 2.5 What Is Integrability?; 2.6 Riemann Sums and Random Variability; 2.7 How to Integrate a Function; 2.8 Extension of the Lebesgue Integral; 2.9 Riemann Sums in Basic Probability; 2.10 Variation and Outer Measure; 2.11 Outer Measure and Variation in  $[0,1]$ ; 2.12 The Henstock Lemma; 2.13 Unbounded Sample Spaces; 2.14 Cauchy Extension of the Riemann Integral; 2.15 Integrability on  $]0, (\infty)[$ ; 2.16 "Negative Probability"  
 2.17 Henstock Integration in  $\mathbb{R}^n$ ; 2.18 Conclusion; 3 Infinite-Dimensional Integration; 3.1 Elements of Infinite-Dimensional Domain; 3.2 Partitions of RT; 3.3 Regular Partitions of RT; 3.4 -Fine Partially Regular Partitions; 3.5 Binary Partitions of RT; 3.6 Riemann Sums in RT; 3.7 Integrands in RT; 3.8 Definition of the Integral in RT; 3.9 Integrating Functions in RT; 4 Theory of the Integral; 4.1 The Henstock Integral; 4.2 Gauges for RT; 4.3 Another Integration System in RT; 4.4 Validation of Gauges in RT; 4.5 The Burkill-Complete Integral in RT; 4.6 Basic Properties of the Integral  
 5.10 Introduction to Central Limit Theorem; 5.11 Proof of Central Limit Theorem; 5.12 Probability Symbols; 5.13 Measurability and Probability; 5.14 The Calculus of Probabilities; 6 Gaussian Integrals; 6.1 Fresnel's Integral; 6.2 Evaluation of Fresnel's Integral; 6.3 Fresnel's Integral in Finite Dimensions; 6.4 Fresnel Distribution Function in  $\mathbb{R}^n$ ; 6.5 Infinite-Dimensional Fresnel Integral; 6.6 Integrability on RT; 6.7 The Fresnel Function Is VBG\*; 6.8 Incremental Fresnel Integral; 6.9 Fresnel Continuity Properties; 7 Brownian Motion; 7.1 c-Brownian Motion; 7.2 Brownian Motion With Drift  
 7.3 Geometric Brownian Motion

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## Sommario/riassunto

"This book presents a self-contained study of the Riemann approach to the theory of random variation and assumes only some familiarity with probability or statistical analysis, basic Riemann integration, and mathematical proofs. The author focuses on non-absolute convergence in conjunction with random variation"--

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2. Record Nr.	UNINA9911021964303321
Autore	Roy Nihar Ranjan
Titolo	Cyber Security and Digital Forensics : Select Proceedings of the 2nd International Conference, ReDCySec 2024 // edited by Nihar Ranjan Roy, Amit Prakash Singh, Pradeep Kumar, Ajay Kaul
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819632848 9789819632831
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (546 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1287
Altri autori (Persone)	SinghAmit Prakash KumarPradeep KaulAjay
Disciplina	005.8
Soggetti	Data protection Telecommunication Forensic sciences Data and Information Security Communications Engineering, Networks Forensic Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Navigating Post-Quantum Blockchain: Resilient Cryptography in Quantum Threats -- Impact of Mobile Node Power Consumption in different Mobility Models on Security -- Cyber Resilience Based Education System -- Enhancing Patient Access and Security: Blockchain-QR Integrated Hospital On Tap System -- Adapting GDPR to the Indian Context -- Challenges and Implementation Framework -- Leveraging Machine Learning Algorithms for Enhanced Network Intrusion Detection and Categorization (NIDC) -- A security model for the enhancement of mobile security.
Sommario/riassunto	This book features peer-reviewed papers from the International Conference on Recent Developments in Cyber Security, organized by the Center for Cyber Security and Cryptology. It focuses on key topics such as information privacy and secrecy, cryptography, cyber threat

intelligence and mitigation, cyber-physical systems, quantum cryptography, and blockchain technologies and their applications. This volume is a unique collection of chapters from various disciplines united by a common theme, making it immensely valuable for both academic researchers and industry practitioners.

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