

Contents of Volume 1

| | |
|---|-------------|
| Preface | v |
| Acknowledgements | vii |
| Contents of Volume 1 | xiii |
| Contents of Volume 2 | xvii |
| Curriculum Vitae: William Feller 1906–1970 | xxi |
| Bibliography of William Feller | xxv |
| PhD Students of William Feller | xxxv |
| Z. W. Birnbaum (ed.): William Feller, 1906–1970 | 1 |
| J. L. Doob: William Feller and Twentieth Century Probability | 7 |
| M. Kac: William Feller, <i>In Memoriam</i> | 13 |
| R. L. Schilling and W. A. Woyczyński: William Feller. A Biography | 17 |
| H. Fischer: Feller’s Early Work on Measure Theory and Mathematical Foundations of Probability | 43 |
| H. Fischer: Feller’s Early Work on Limit Theorems | 69 |
| E. Scholz: Feller and Busemann on Surface Theory — Contributions to Geometry | 87 |
| [Feller 1928] Über algebraisch rektifizierbare transzendente Kurven | 101 |
| [Feller 1930] Über die Lösungen der linearen partiellen Differentialgleichungen zweiter Ordnung vom elliptischen Typus | 117 |
| [Feller 1934a] Zur Differentiation der Lebesgueschen Integrale | 135 |
| [Feller 1935c] Über den zentralen Grenzwertsatz der Wahrscheinlichkeitsrechnung | 167 |

| | |
|---|-----|
| [Feller 1935c] (translation) On the Central Limit Theorem of Probability Theory | 207 |
| [Feller 1936b] Krümmungseigenschaften konvexer Flächen | 245 |
| [Feller 1936c] Zur Theorie der stochastischen Prozesse. (Existenz-und Eindeutigkeitsätze.) | 293 |
| [Feller 1936c] (translation) On the Theory of Stochastic Processes. (Existence and Uniqueness.) | 341 |
| [Feller 1937a] Über den zentralen Grenzwertsatz der Wahrscheinlichkeitsrechnung. II | 389 |
| [Feller 1937a] (translation) On the Central Limit Theorem of Probability Theory. II | 403 |
| [Feller 1937b] Über das Gesetz der großen Zahlen | 417 |
| [Feller 1937b] (translation) On the Law of Large Numbers | 429 |
| [Feller 1939a] Die Grundlagen der Volterraschen Theorie des Kampfes ums Dasein in wahrscheinlichkeitstheoretischer Behandlung | 441 |
| [Feller 1939a] (translation) The Foundations of Volterra's Theory of the Struggle for Life in a Probabilistic Treatment | 471 |
| [Feller 1939b] Completely Monotone Functions and Sequences | 497 |
| [Feller 1939c] Über die Existenz von sogenannten Kollektiven | 511 |
| [Feller 1939c] (translation) On the Existence of So-called Kollektivs | 521 |
| [Feller 1939d] Neuer Beweis für die Kolmogoroff–P. Lévy'sche Charakterisierung der unbeschränkt teilbaren Verteilungsfunktionen | 531 |
| [Feller 1940c] On the Integro-differential Equations of Purely Discontinuous Markoff Processes | 539 |
| [Feller 1941a] On the Integral Equation of Renewal Theory | 567 |
| [Feller 1942] Some Geometric Inequalities | 593 |
| [Feller 1943b] Generalization of a Probability Limit Theorem of Cramér | 601 |
| [Feller 1943c] The General Form of the So-called Law of the Iterated Logarithm | 613 |

| | |
|---|-----|
| [Feller 1943d] On a General Class of “Contagious” Distributions | 643 |
| [Feller 1945a] On the Normal Approximation to the Binomial Distribution | 655 |
| [Feller 1945b] The Fundamental Limit Theorems in Probability | 667 |
| [Feller 1945c] Regularity Properties of a Certain Class of Surfaces | 701 |
| [Feller 1945d] Note on the Law of Large Numbers and “Fair” Games | 717 |
| [Feller 1946a] A Limit Theorem for Random Variables with Infinite Moments | 721 |
| [Feller 1946b] The Law of the Iterated Logarithm for Identically Distributed Random Variables | 727 |
| [Feller 1948a] On the Kolmogorov–Smirnov Limit Theorems for Empirical Distributions | 735 |
| [Feller 1948c] On Probability Problems in the Theory of Counters | 751 |
| [Feller 1949a] A Property of Power Series with Positive Coefficients | 761 |
| [Feller 1949b] On Fluctuations in Coin-tossing | 765 |
| [Feller 1949c] On the Theory of Stochastic Processes, with Particular Reference to Applications | 769 |
| [Feller 1949d] Fluctuation Theory of Recurrent Events | 799 |

Contents of Volume 2

| | |
|--|-------------|
| Preface | v |
| Acknowledgements | vii |
| Contents of Volume 2 | xiii |
| Contents of Volume 1 | xvii |
| Curriculum Vitae: William Feller 1906–1970 | xxi |
| Bibliography of William Feller | xxv |
| PhD Students of William Feller | xxxv |
| R. L. Schilling and W. A. Woyczyński: William Feller. A Biography | 1 |
| E. Baake and A. Wakolbinger: Feller’s Contributions to Mathematical Biology | 25 |
| N. Jacob: Feller on Differential Operators and Semi-groups | 45 |
| M. Fukushima: Feller’s Contributions to the One-Dimensional Diffusion Theory and Beyond | 63 |
| G. Peskir: On Boundary Behaviour of One-Dimensional Diffusions: From Brown to Feller and Beyond | 77 |
| R. Maller: Feller’s Work in Renewal Theory, the Law of the Iterated Logarithm and Karamata Theory | 95 |
| [Feller 1951a] The Asymptotic Distribution of the Range of Sums of Independent Random Variables | 115 |
| [Feller 1951d] Diffusion Processes in Genetics | 121 |
| [Feller 1951e] Two Singular Diffusion Problems | 141 |
| [Feller 1952a] The Parabolic Differential Equations and the Associated Semigroups of Transformation | 151 |

| | |
|---|-----|
| [Feller 1952b] On a Generalization of Marcel Riesz' Potentials and the Semigroups Generated by Them | 203 |
| [Feller 1952c] Some Recent Trends in the Mathematical Theory of Diffusion | 213 |
| [Feller 1952e] On Positivity Preserving Semigroups of Transformations on $C[r_1, r_2]$ | 231 |
| [Feller 1953a] Semigroups of Transformations in General Weak Topologies | 241 |
| [Feller 1953b] On the Generation of Unbounded Semigroups of Bounded Linear Operators | 263 |
| [Feller 1954a] The General Diffusion Operator and Positivity Preserving Semigroups in One Dimension | 273 |
| [Feller 1954b] Diffusion Processes in One Dimension | 293 |
| [Feller 1955a] On Second Order Differential Operators | 325 |
| [Feller 1955b] On Differential Operators and Boundary Conditions | 341 |
| [Feller 1956a] Boundaries Induced by Non-negative Matrices | 355 |
| [Feller 1956b] A Diffusion Equivalent to a Countable Markov Chain | 391 |
| [Feller 1956c] Stochastic Processes Connected with Harmonic Functions | 395 |
| [Feller 1957a] Generalized Second Order Differential Operators and Their Lateral Conditions | 425 |
| [Feller 1957d] On Boundaries and Lateral Conditions for the Kolmogorov Differential Equations | 471 |
| [Feller 1957e] On Boundaries Defined by Stochastic Matrices | 517 |
| [Feller 1958] On the Intrinsic Form for Second Order Differential Operators | 523 |
| [Feller 1959b] The Birth and Death Processes as Diffusion Processes | 541 |
| [Feller 1959c] Non-Markovian Processes with the Semigroup Property | 587 |
| [Feller 1959d] Differential Operators with the Positive Maximum Property | 589 |
| [Feller 1960] Some New Connections Between Probability and Classical Analysis | 595 |

| | |
|---|-----|
| [Feller 1961a] A Renewal Theorem | 613 |
| [Feller 1961b] A Simple Proof for Renewal Theorems | 619 |
| [Feller 1963] On the Classical Tauberian Theorems | 629 |
| [Feller 1964] On Semi-Markov Processes | 635 |
| [Feller 1966a] On the Fourier Representation for Markov Chains and the Strong Ratio Theorem | 643 |
| [Feller 1966b] On the Influence of Natural Selection on Population Size | 655 |
| [Feller 1966c] Infinitely Divisible Distributions and Bessel Functions Associated with Random Walks | 661 |
| [Feller 1967a] On Regular Variation and Local Limit Theorems | 673 |
| [Feller 1967c] On Fitness and the Cost of Natural Selection | 689 |
| [Feller 1968b] On the Berry-Esseen Theorem | 705 |
| [Feller 1968d] An Extension of the Law of the Iterated Logarithm to Variables Without Variance | 713 |
| [Feller 1969b] One-sided Analogues of Karamata's Regular Variation | 727 |
| [Feller 1969d] General Analogues to the Law of the Iterated Logarithm | 743 |
| [Feller 1969c] Limit Theorems for Probabilities of Large Deviations | 749 |
| [Feller 1970] On the Oscillations of Sums of Independent Random Variables | 769 |