1. Record Nr. UNINA9910813911403321 Autore Jarrow Robert A Titolo Financial derivatives pricing: selected works of Robert Jarrow / / Robert A. Jarrow Pubbl/distr/stampa Hackensack, NJ,: World Scientific, c2008 **ISBN** 981-281-922-3 Edizione [1st ed.] 1 online resource (608 p.) Descrizione fisica Disciplina 332.64/57 Derivative securities - Prices - Mathematical models Soggetti Derivative securities - Prices - United States Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references. Nota di bibliografia Acknowledgments; Preface; Foreword; Contents; Part I. Option Pricing Nota di contenuto Theory and its Foundations; Introduction; References; 1. Approximate Option Valuation for Arbitrary Stochastic Processes R. Jarrow and A. Rudd: 1. Introduction: 2. Approximating distribution: 3. Approximate option valuation formula; 4. Approximating option values with the Black-8cboles formula; 5. N umerieal analysis of residual error; 6. Conclusion; Appendix 1: Proof of the generalized Edgeworth series expansion; References; 2. Arbitrage, Continuous Trading, and Margin Requirements D. Heath and R. Jarrow; I. The Model II. Market Constraints on Trading Strategies III. Option Pricing under Margin Requirements; IV. Conclusion; Appendix; REFERENCES; 3. Ex-Dividend Stock Price Behavior and Arbitrage Opportunities D. Heath and R. Jarrow; I. Introduction; II. The Model; III. Characterization of Arbitrage Opportunities at the Ex-Dividend Date; IV. Escrowed Dividend Stock Processes; V. Conclusion; Appendix; Proofs of Theorems 1 and 2; References: 4. The Stop-Loss Start-Gain Paradox and Option Valuation: A New Decomposition into Intrinsic and Time Value P. Carr and R. **Jarrow** 1. The Black-Scholes Model, Terminology, and the Stop-Loss StartGain Strategy2. Resolution of the Paradox; 3. Valuation Results; 4. Generalizing the Stock-Price Process; 5. Conclusions; Appendix;

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## Sommario/riassunto

This book is a collection of original papers by Robert Jarrow that contributed to significant advances in financial economics. Divided into three parts, Part I concerns option pricing theory and its foundations. The papers here deal with the famous Black-Scholes-Merton model, characterizations of the American put option, and the first applications of arbitrage pricing theory to market manipulation and liquidity risk. Part II relates to pricing derivatives under stochastic interest rates. Included is the paper introducing the famous Heath-Jarrow-Morton (HJM) model, together with papers on topics