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Nota di contenuto	CONTENTS; Chapter 1 Mathematical Models for HIV Transmission Among Injecting Drug Users Vincenzo Capasso and Daniela Morale; Chapter 2 Estimation of HIV Infection and Seroconversion Probabilities in IDU and Non-IDU Populations by State Space Models Wai-Yuan Tan, Li-Jun Zhang and Lih-Yuan Deng; Chapter 3 A Bayesian Monte Carlo Integration Strategy for Connecting Stochastic Models of HIV / AIDS with Data Charles J. Mode; Chapter 4 A Class of Methods for HIV Contact Tracing in Cuba: Implications for Intervention and Treatment Ying-Hen Hsieh, Hector de Arazoza, Rachid Lounes and Jose Joanes Chapter 5 Simultaneous Inferences of HIV Vaccine Effects on Viral Load, CD4 Cell Counts, and Antiretroviral Therapy Initiation in Phase 3 Trials Peter B. Gilbert and Yanqing SunChapter 6 A Review of Mathematical Models for HIV / AIDS Vaccination Shu-Fang Hsu Schmitz; Chapter 7 Effects of AIDS Vaccine on Sub-Populations of CD4(+) T Cells, CD8(+) T Cells and B Cells Under HIV Infection Wai-Yuan Tan, Ping Zhang and Xiaoping Xiong; Chapter 8 Dynamical Models for the Course of an HIV Infection Christel Kamp; Chapter 9 How Fast Can HIV Escape from Immune Control? W. David Wick and Steven G. Self Chapter 10 CTL Action During HIV-1 Is Determined VIA Interactions with Multiple Cell Types Seema H. Bajaria and Denise E.

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Sommario/riassunto	With contributions from an international team of leading researchers, the book pulls together updated research results in the area of HIV/AIDS modeling to provide readers with the latest information in the field. Topics covered include: AIDS epidemic models; vaccine models; models for HIV/cell dynamics and interactions; cellular kinetics; viral dynamics with antiviral treatments; modeling of drug resistance and quasispecies.