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Titolo	From genetics to mathematics [[electronic resource] /] / edited by Mirosław Lachowicz, Jacek Miękisz
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Descrizione fisica	1 online resource (242 p.)
Collana	Series on advances in mathematics for applied sciences ; ; v. 79
Altri autori (Persone)	LachowiczMirosław MiękiszJacek
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Soggetti	Genetics - Mathematical models Mathematics Electronic books.
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Contents; 1. To understand nature D. Mackiewicz and S. Cebrat; 2. Evolution of the age-structured populations A. Laszkiewicz, P. Biecek, K. Borikowska, and S. Cebrat; 3. Complementing haplotypes versus purifying selection W. Waga, M. Zawierta, J. Kowalski, and S. Cebrat; 4. Models of population dynamics and genetics R. Rudnicki; 5. Age-structured population models with genetics M. R. Dudek and T. Nadzieja; 6. Computational modeling of evolutionary systems A. Lipowski and D. Lipowska; Biological Glossary; Author Index; Subject Index; Photos
Sommario/riassunto	This volume contains pedagogical and elementary introductions to genetics for mathematicians and physicists as well as to mathematical models and techniques of population dynamics. It also offers a physicist's perspective on modeling biological processes. Each chapter starts with an overview followed by the recent results obtained by authors. Lectures are self-contained and are devoted to various phenomena such as the evolution of the genetic code and genomes, age-structured populations, demography, sympatric speciation, the Penna model, Lotka-Volterra and other predator-prey models,

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Livello bibliografico	Periodico
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