

1. Record Nr.	UNINA9910457171203321
Autore	Rapaport D. C.
Titolo	The art of molecular dynamics simulation // D.C. Rapaport [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2004
ISBN	1-107-14671-2 1-139-63703-7 0-511-64818-9 0-511-19374-2 0-511-56632-8 0-511-81658-8 0-511-19448-X
Edizione	[Second edition.]
Descrizione fisica	1 online resource (xiii, 549 pages) : digital, PDF file(s)
Disciplina	539/.6
Soggetti	Condensed matter - Computer simulation Molecular dynamics - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 519-531) and indexes.
Nota di contenuto	Cover; Half-title; Title; Copyright; Contents; Preface to the first edition; Preface to the second edition; About the software; 1 Introduction; 2 Basic molecular dynamics; 3 Simulating simple systems; 4 Equilibrium properties of simple fluids; 5 Dynamical properties of simple fluids; 6 Alternative ensembles; 7 Nonequilibrium dynamics; 8 Rigid molecules; 9 Flexible molecules; 10 Geometrically constrained molecules; 11 Internal coordinates; 12 Many-body interactions; 13 Long-range interactions; 14 Step potentials; 15 Time-dependent phenomena; 16 Granular dynamics 17 Algorithms for supercomputers 18 More about software; 19 The future; Appendix; References; Function index; Index; Colophon
Sommario/riassunto	The extremely powerful technique of molecular dynamics simulation involves solving the classical many-body problem in contexts relevant to the study of matter at the atomistic level. Since there is no alternative approach capable of handling this extremely broad range of problems at the required level of detail, molecular dynamics methods

have proved themselves indispensable in both pure and applied research. This book, first published in 2004, is a blend of tutorial and recipe collection, providing both an introduction to the subject for beginners and a reference manual for the more experienced practitioner. It is organized as a series of case studies that take the reader through each of the steps from formulating the problem, developing the necessary software, and then using the programs to make actual measurements. The second edition of the book includes a substantial amount of new material as well as completely rewritten software.

2. Record Nr.	UNINA9910792150703321
Autore	Palacios-Huerta Ignacio
Titolo	Beautiful game theory : how soccer can help economics // Ignacio Palacios-Huerta
Pubbl/distr/stampa	Princeton, New Jersey ; ; Oxford, England : , : Princeton University Press, , 2014 ©2014
ISBN	0-691-16925-X 1-4008-5031-2
Edizione	[Course Book]
Descrizione fisica	1 online resource (222 p.)
Classificazione	BUS069030MAT011000SPO040000
Disciplina	330.01/51932
Soggetti	Economics - Psychological aspects Soccer - Economic aspects Game theory
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	Front matter -- CONTENTS -- INTRODUCTION -- FIRST HALF -- 1. Pelé Meets John von Neumann in the Penalty Area -- 2. Vernon Smith Meets Messi in the Laboratory -- 3. Lessons for Experimental Design -- 4. Mapping Minimax in the Brain -- 5. Psychological Pressure on the Field and Elsewhere -- HALFTIME -- 6. Scoring at Halftime -- SECOND HALF -- 7. Favoritism under Social Pressure -- 8. Making the Beautiful Game a Bit Less Beautiful 124 (with Luis Garicano) -- 9. Fear Pitch -- 10.

Sommario/riassunto

A wealth of research in recent decades has seen the economic approach to human behavior extended over many areas previously considered to belong to sociology, political science, law, and other fields. Research has also shown that economics can provide insight into many aspects of sports, including soccer. Beautiful Game Theory is the first book that uses soccer to test economic theories and document novel human behavior. In this brilliant and entertaining book, Ignacio Palacios-Huerta illuminates economics through the world's most popular sport. He offers unique and often startling insights into game theory and microeconomics, covering topics such as mixed strategies, discrimination, incentives, and human preferences. He also looks at finance, experimental economics, behavioral economics, and neuroeconomics. Soccer provides rich data sets and environments that shed light on universal economic principles in interesting and useful ways. Essential reading for students, researchers, and sports enthusiasts, Beautiful Game Theory is the first book to show what soccer can do for economics.
