1. Record Nr. UNINA9910782100803321

Titolo	Handbook of molecular force spectroscopy [[electronic resource] /] / edited by Aleksandr Noy
Pubbl/distr/stampa	New York, N.Y., : Springer, c2008
ISBN	0-387-49989-X
Descrizione fisica	1 online resource (312 p.)
Altri autori (Persone)	NoyAleksandr
Disciplina	543/.54
Soggetti	Molecular spectroscopy
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	Surface force apparatus measurements of molecular forces in biological adhesion (Deborah Leckband, Univ. of Illinois, Urbana-Champaign) -- Force spectroscopy with optical and magnetic tweezers (Richard Conroy, Harvard University) -- Chemical Force Microscopy 1: Nanoscale probing of fundamental chemical interactions (Aleksandr Noy, LLNL, Dmitry V. Vezenov, Harvard University, and Charles M. Lieber, Harvard University) -- Chemical Force Microscopy 2: Interactions in complex molecular assemblies (Dmitry V. Vezenov, Harvard University, Aleksandr Noy, LLNL, and Charles M. Lieber, Harvard University) -- Dynamic force spectroscopy with the atomic force microscope (Phil Williams, University of Nottingham) -- Simulation in force spectroscopy (David L. Patrick, Western Washington University) -- Probe tip functionalization: applications to chemical force microscopy (Craig D. Blanchard, Albert Loui, and Timothy V. Ratto, LLNL) -- The dynamical response of proteins under force -- (Kirstine L. Anderson, Sheena E. Radford, D. Alastair Smith, and David J. Brockwell, University of Leeds) -- Counting and breaking single bonds: Dynamic force spectroscopy in tethered single molecule systems (Todd A. Sulchek, Raymond W. Friddle, and Aleksandr Noy, LLNL) -- Direct mapping of intermolecular interaction potentials (Paul D. Ashby, MIT).
Sommario/riassunto	"...Noy's Handbook of Molecular Force Spectroscopy is both a timely and useful summary of fundamental aspects of molecular force spectroscopy, and I believe it would make a worthwhile addition to any good scientific library. New research groups that are entering this field

would be well advisedto study this handbook in detail before venturing into the exciting and challenging world of molecular force spectroscopy." Matthew F. Paige, University of Saskatchewan, Journal of the American Chemical Society Modern materials science and biophysics are increasingly focused on studying and controlling intermolecular interactions on the single-molecule level. Molecular force spectroscopy was developed in the past decade as the result of several unprecedented advances in the capabilities of modern scientific instrumentation, and defines a number of techniques that use mechanical force measurements to study interactions between single molecules and molecular assemblies in chemical and biological systems. Examples of these techniques, which typically target a specific range of experimental systems and geometries, include atomic force microscopy, optical tweezers, surface forces apparatus, and magnetic tweezers. With contributions by internationally renowned scientists, Handbook of Molecular Force Spectroscopy is a comprehensive, state-of-the-art review of modern force spectroscopy, including fundamentals of intermolecular forces, technical aspects of the force measurements, and practical applications. The Handbook presents reviews of fundamental physical concepts of loading single and multiple chemical bonds on the nanometer scale, covers practical aspects of modern single-molecule level techniques, and describes several representative applications of force spectroscopy to the study of chemical and biological processes. Computer modeling of force spectroscopy experiments is addressed as well. In sum, this volume is an authoritative guide to planning, understanding, and analyzing modern molecular force spectroscopy experiments with an emphasis on biophysical research.

2. Record Nr. UNINA9910961509303321

Autore	Mitcham Samuel W., Jr., <1949->
Titolo	Hitler's commanders : officers of the Wehrmacht, the Luftwaffe, the Kriegsmarine, and the Waffen-SS / / Samuel W. Mitcham, Jr., and Gene Mueller
Pubbl/distr/stampa	Lanham, : Rowman & Littlefield Publishers, c2012 New York : , : Bloomsbury Publishing (US), , 2012
ISBN	979-88-8183-024-3 9786613896957 1-283-58450-6 1-4422-1154-7
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (381 p.)
Altri autori (Persone)	MuellerGene
Disciplina	940.54/13430922
Soggetti	Admirals - Germany Generals - Germany Marshals - Germany World War, 1939-1945 Admirals Armed Forces Generals HISTORY - Military - World War II Marshals Biographies. Germany Armed forces Biography Germany
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 (p. 335-342) and index.
Nota di contenuto	CONTENTS; PREFACE AND ACKNOWLEDGMENTS; INTRODUCTION; Ch01. THE GENERALS OF THE HIGH COMMAND; Ch02. THE WARLORDS OF THE EASTERN FRONT; Ch03. THE GENERALS OF STALINGRAD; Ch04. THE COMMANDERS IN THE WEST; Ch05. THE PANZER COMMANDERS; Ch06. THE LORDS OF THE AIR; Ch07. THE NAVAL OFFICERS; Ch08. THE

WAFFEN-SS; Appendix I. EQUIVALENT OFFICER RANKS; Appendix II. GENERAL STAFF POSITIONS AND ABBREVIATIONS; Appendix III. CHARACTERISTICS OF SELECTED OPPOSING TANKS; Appendix IV. LUFTWAFFE AVIATIONn UNIT STRENGTHS AND CHAIN OF COMMAND; Appendix V. LUFTWAFFE TACTICAL ABBREVIATIONS; Appendix VI. ACRONYMS
NOTESBIBLIOGRAPHY; INDEX; Photospread

Sommario/riassunto

Now in an expanded edition that includes biographies of the generals of Stalingrad and a new chapter on the panzer commanders, this book offers rare insight into the men who ran Nazi Germany's war machine. Going beyond common stereotypes, Samuel W. Mitcham and Gene Mueller recount the compelling lives of a varied group of army, navy, Luftwaffe, and SS men. Weaving in dramatic stories of tank commanders, fighter pilots in aerial combat, and U-Boat aces, the authors bring the battlefields of World War II to life.