1. Record Nr. UNINA9910135245103321

Titolo	Availability, Reliability and Security (ARES), 2014 Ninth International Conference on
Pubbl/distr/stampa	IEEE
ISBN	1-4799-4223-5
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910510539803321

Titolo	The handbook of mummy studies : new frontiers in scientific and cultural perspectives / / edited by Dong Hoon Shin, Raffaella Bianucci
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-15-3354-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (1178 pages)
Disciplina	393.3
Soggetti	Mummies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Mummy Studies in General -- Part 2: Techniques and Current Trends in Mummy Studies -- Part 3: Mummies of the World -- Part 4: Museology of Mummies.
Sommario/riassunto	Owing to their unique state of preservation, mummies provide us with significant historical and scientific knowledge of humankind’s past. This handbook, written by prominent international experts in mummy studies, offers readers a comprehensive guide to new understandings of the field’s most recent trends and developments. It provides invaluable information on the health states and pathologies of historic populations and civilizations, as well as their socio-cultural and religious characteristics. Addressing the developments in mummy

	studies that have taken place over the past two decades – which have been neglected for as long a time – the authors excavate the ground-breaking research that has transformed scientific and cultural knowledge of our ancient predecessors. The handbook investigates the many new biotechnological tools that are routinely applied in mummy studies, ranging from morphological inspection and endoscopy to minimally invasive radiological techniques that are used to assess states of preservation. It also looks at the paleoparasitological and pathological approaches that have been employed to reconstruct the lifestyles and pathologic conditions of ancient populations, and considers the techniques that have been applied to enhance biomedical knowledge, such as craniofacial reconstruction, chemical analysis, stable isotope analysis and ancient DNA analysis. This interdisciplinary handbook will appeal to academics in historical, anthropological, archaeological and biological sciences, and will serve as an indispensable companion to researchers and students interested in worldwide mummy studies. .

3.	Record Nr.	UNINA9910860841903321
	Autore	Starikov Evgeni
	Titolo	Entropy-Enthalpy Compensation : Finding a Methodological Common Denominator Through Probability, Statistics, and Physics
	Pubbl/distr/stampa	Milton, : Jenny Stanford Publishing, 2020
	ISBN	1-00-305625-3 1-000-09198-8 1-003-05625-3 1-000-09186-4
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (xvii, 398 pages)
	Altri autori (Persone)	NordenBengt <1945-> TanakaShigenori
	Disciplina	536.73 536.7
	Soggetti	Entropy Enthalpy Molecular dynamics
	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	Cover -- Half Title -- Title Page -- Copyright Page -- Dedication -- Contents -- Preface -- 1. Entropy-Enthalpy Compensation and Exploratory Factor Analysis of Correlations: Are There Common Points? -- 1.1 Introduction -- 1.2 Results and Discussion -- 1.2.1 Macroscopic Thermodynamics Considered from the Standpoint of van der Waals Equation of State -- 1.2.2 Correctness of Our Macroscopic-Thermodynamic Approach -- 1.2.3 What Is the Actual Difference between Gibbs and Helmholtz Functions? -- 1.2.4 The Actual Physical Sense of the EEC -- 1.2.5 Statistical-Mechanical Standpoint 1.2.6 What Is the Actual Probability Distribution behind the Statistical Mechanics? -- 1.2.7 Bayesian Statistical Thermodynamics of Real Gases -- 1.2.8 Applicability of Linhart's Approach to Real Gases -- 1.2.9 Is There Some Physical Connection between Boltzmann's and Gibbs' Entropy Formulae? -- 1.2.10 Can Our Approach Be Really Productive? -- 1.2.11 A Methodological Perspective -- 1.2.12 What Is the Actual Zest of Our Approach? -- 1.3 Conclusions -- 1.4 Outlook -- Appendix 1 to Chapter -- Appendix 2 to Chapter 1: Methodological Roots and Significance of Energetics -- A2.1 Introduction A2.2 Energetics Is a Generally Applicable Concept -- A2.2.1 Foreword -- A2.2.2 The First Definition of Entropy -- A2.2.3 Introduction and Preliminary Concepts -- A2.2.4 Succinct Presentation of Thermodynamic Principles -- A2.2.4.1 Joule-Mayer principle -- A2. 2.4.2 Principle of Carnot-Clausius -- A2.2.5 Energy and the Forms of Sensitivity -- A2.2.6 Third Part -- A2.2.6.1 The muscle system and energetics -- A2.2.6.2 Analogy between the muscle system and the nervous system -- A2.2.6.3 Energetics and the nervous system -- A2. 2.6.4 Energetics and the nervous system (Continued) A2.2.7 Thermodynamic Design of Some Mental Situations -- A2.2.8 Summary and Conclusions -- A2.3 Our General Conclusion -- A2.3.1 The Balance of Bodies: Types of Body Balance -- A2.3.2 Our Immediate Comment -- A2.4 How to Employ the Ideas of Energetics: A Methodological Reiteration -- A2.4.1 How to Make a Mechanical Theory of Mental Phenomena -- A2.4.2 -- A2.4.3 -- A2.4.4 -- A2.4.5 The Senses: Theory of the Consecutive Images -- A2.4.6 Demential Law by Paul Janet -- A2.4.7 Psychoses -- A2.4.8 Mechanical Representation of Psychic Phenomena -- A2.4.8.1 Mechanism of dementia A2.4.8.2 Mechanism of sensations -- A2.4.8.3 Mechanism of psychoses -- A2.4.8.4 Consequences -- A2.4.8.5 Influence of the cerebral inertia coefficient -- A2.4.9 Conclusion -- Appendix 3 to Chapter 1: A Methodological Outlook -- 2. Polynomial Exploratory Factor Analysis on Molecular Dynamics Trajectory of the Ras-GAP System: A Possible Theoretical Approach to Enzyme Engineering -- 2.1 Introduction -- 2.2 Results and Discussion -- 2.2.1 Linear Exploratory Factor Analysis Results -- 2.2.2 Nonlinear Exploratory Factor Analysis Results -- 2.3 Detailed Description of the Method
Sommario/riassunto	Professionals recognize entropy-enthalpy compensation as an important factor in molecular recognition, lead design, water networks, and protein engineering. It can be experimentally studied by proper combinations of diverse spectroscopic approaches with isothermal titration calorimetry and is clearly related to molecular dynamics. So, how should we treat entropy-enthalpy compensation? Is it a stubborn hindrance that solely complicates the predictability of phenomena otherwise laid on the line by Mother Nature? How should we then deal with it? This book dwells on these posers. It combines two chapters written by globally recognized specialists. Chapter 1 deals with general

issues and suggests a definite approach to how we may answer the posers. Chapter 2 shows how the approach outlined might be successfully applied in a rational design of enzymes. This might provide other interesting strategic perspectives in the general theoretical physical chemistry field.