1. Record Nr. UNINA9910155734203321

Autore	Nelson Robin
Titolo	From Sheep to Sweater
Pubbl/distr/stampa	Lerner
ISBN	1-5124-4815-X
Descrizione fisica	1 online resource (24 p.)
Disciplina	677.31
Lingua di pubblicazione	Inglese
Formato	Musica
Livello bibliografico	Monografia
Sommario/riassunto	How does sheep's wool turn into cozy clothing? Follow each step in the production cyclefrom shearing a sheep to pulling on a warm sweaterin this fascinating book!Learn how a variety of objects are made or how nature's cycles work--from Start to Finish. Suitable for both struggling and on-level readers, these titles teach science concepts as well as sequential thinking.

2. Record Nr. UNINA9910784789803321

Autore	Storms Edmund
Titolo	The science of low energy nuclear reaction [[electronic resource]] : a comprehensive compilation of evidence and explanations about cold fusion / / Edmund Storms
Pubbl/distr/stampa	River Edge, NJ, : World Scientific, c2007
ISBN	1-281-91191-7 9786611911911 981-277-206-5
Descrizione fisica	1 online resource (340 p.)
Disciplina	539.764
Soggetti	Cold fusion Cold fusion - Research - History
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. 228-305) and index.
Nota di contenuto	Preface; Chapter 5; 1. Introduction; 2. History as Seen from the Los Alamos National Laboratory - and Beyond; 3. Personal Experience Investigating Cold Fusion; 3.1 Introduction; 3.2 Search for Tritium; 3.3 Effects of Crack Formation; 3.4 Anomalous Energy Production; 3.5 Study of Palladium; 3.6 Study of the Loading Process for Palladium; 3.7 Surface Composition Explored; 3.8 Writing Reviews; 3.9 Trip to the NHE Laboratory (Japan); 3.10 Exploration of Errors in Calorimetry; 3.11 Experience with Flow Calorimetry; 3.12 Surface Deposits; 3.13 Experience with Seebeck Calorimetry 3.14 Attempts to Replicate the Case Effect3.15 Replication of the Letts-Cravens Effect; 3.16 Development of Better Seebeck Calorimeters; 3.17 Conclusion; 4. What is Known or Believed?; 4.1 The Myth of Cold Fusion; 4.2 Why was Cold Fusion Rej ected?; 4.3 Excess Power Production; 4.3.1 Heavy Hydrogen (Deuterium); 4.3.2 Light Hydrogen (Protium); 4.3.3 General Behavior; 4.4 Helium and Tritium Production; 4.4.1 Tritium; 4.4.2 Helium; 4.5 Transmutation as a Source of Nuclear Products; 4.6 Emissions as Nuclear Products; 4.6.1 Prompt X-ray Emission; 4.6.2 Prompt Gamma Emi ssion 4.6.3 Prompt Particle Emission4.6.4 Radioactive Decay; 4.7 Patterns of Behavior; 4.8 General Replication; 4.9 Questions About Individual

Success Rate; 4.10 Duplication of Results (the Bottom Line); 4.11 Explanation; 4.12 What Next?; 5. Where Does Cold Fusion Occur and What Influences its Behavior?; 5.1 Introduction; 5.2 Cracks; 5.3 Nanosize Particles; 5.4 Dendrites; 5.5 Role of Lithium and Other Alloys; 5.6 Deuterium Flux; 5.7 Role of Hydrogen Isotope Content; 5.8 Role of the Hydrino and Hydrex; 5.9 Role of Neutrons; 5.10 Role of Super-Heavy Electrons as a Shield of Nuclear Charge
5.11 Role of Superconductivity5.12 Role of Electron Cluster; 5.13 Role of High-Energy Environment; 5.14 Role of Wave-Like Behavior; 5.15 Living Organisms; 5.16 Conclusion; 6. What Conditions Initiate Cold Fusion?; 6.1 Introduction; 6.2 Initiation Methods; 6.2.1 Living Organisms; 6.2.2 Ambient Gas; 6.2.3 Proton Conductors; 6.2.4 Electrolysis Under Faraday Conditions; 6.2.5 Electrolysis Under Plasma Conditions; 6.2.6 Plasma Discharge; 6.2.7 Laser Light; 6.2.8 Sonic Implantation; 6.2.9 Crack Formation; 6.2.10 Ion Bombardment; 6.3 Summary; 7. What Is Detected and How Is It M easured?
7.1 Introduction7.2 Neutron; 7.3 Tritium; 7.4 Gamma and X-ray Radiation; 7.5 Charged Particle Radiation; 7.6 Beta Radiation; 7.7 Transmutation; 7.8 Helium; 7.9 Heat Energy; 7.9.1 Adiabadic Type; 7.9.2 Isoperibolic Type; 7.9.3 Double-Wall Isoberibolic Calorimeter; 7.9.4 Flow Calorimeter; 7.9.5 Dual-Cell Reference Calorimeter; 7.9.6 Seebeck Calorimeter; 7.10 Accuracy of Calorimetry; 7.11 Summary; 8. Explanations, the Hopes a nd Drea ms of Theoreticians; 8.1 Introduction; 8.2 Limitations to Theory; 8.2.1 Limitation #1:; 8.2.2 Limitation #2:; 8.2.3 Limitation #3:; 8.2.4 Limitation #4:
8.3 Plausible Models and Explanations

Sommario/riassunto

One of the most important discoveries of this century - cold fusion - was summarily rejected by science and the media before sufficient evidence had been accumulated to make a rational judgment possible. Enough evidence is now available to show that this rejection was wrong and that the discovery of a new source of clean energy may help solve some serious problems currently facing mankind. The book catalogues and evaluates this evidence and shows why the initial reaction was driven more by self-interest than fact. This book is essential reading for anyone who wants to understand the history an