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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 Effect 3.15 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 Rejected?; 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 Emission

4.6.3 Prompt Particle Emission; 4.6.4 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 Superconductivity; 5.12 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 Measured?; 7.1 Introduction; 7.2 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 Adiabatic Type; 7.9.2 Isothermic Type; 7.9.3 Double-Wall Isothermic 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 and Dreams 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 and

2. Record Nr.	UNINA9910164020403321
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