Record Nr. UNINA9910778261403321 Condensed matter nuclear science [[electronic resource]]: proceedings **Titolo** of the 12th International Conference on Cold Fusion: Yokohama, Japan, 27 November - 2 December 2005 / / editors, Akito Takahashi, Kenichiro Ota, Yasuhiro Iwamura Pubbl/distr/stampa New Jersey; ; London, : World Scientific, c2006 **ISBN** 1-281-37310-9 9786611373108 981-277-298-7 Descrizione fisica 1 online resource (xv, 591 p.): ill. (some col.) Altri autori (Persone) **IwamuraYasuhiro** OtaKen-ichiro **TakahashiAkito** Disciplina 539.7/64 Soggetti Cold fusion Controlled fusion Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references and author index. Nota di contenuto Preface -- 1. General. Progress in condensed matter nuclear science / A. Takahashi. Summary of ICCF-12 / X. Z. Li. Overview of light water/hydrogen-based low-energy nuclear reactions / G. H. Miley and P. J. Shrestha -- 2. Excess heat and He detection. Development of "DSreactor" as the practical reactor of "cold fusion" based on the "DS-cell" with "DS-cathode" / Y. Arata and Y.-C. Zhang. Progress in excess of power experiments with electrochemical loading of deuterium in palladium / V. Violante ... [et al.]. Anomalous energy generation during conventional electrolysis / T. Mizuno and Y. Toriyabe. "Excess heat" induced by deuterium flux in palladium film / B. Liu ... [et al.].

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## Sommario/riassunto

"Recent progress in the emerging field of condensed matter nuclear science (CMNS) is presented as a combination of basic nuclear science, energy, nanomaterials science, electro-chemistry and nuclear physics. Key and selected papers from an important conference in this exciting area provide the latest advances in CMNS studies. Current results from cold fusion and condensed matter nuclear science are included."