1. Record Nr. UNINA9910346777003321 Autore Kreuchauff Florian Heiko Fraktale Doppel-Boom-Zyklen und Querschnittstechnologien: Theorie, Titolo Empirie und Politikimplikationen am Beispiel der Nanotechnologie Pubbl/distr/stampa KIT Scientific Publishing, 2016 1000049667 **ISBN** Descrizione fisica 1 electronic resource (XIX, 229 p. p.) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia In a majority of knowledge-intensive technologies, empirical studies Sommario/riassunto show characteristic double boom patterns of research activities. After an initial increase of efforts, research activities drop, only to rise again after a certain period. As a reason for this interim weakening the literature presumes a temporary disillusionment among economic actors. The present work questions this assumption. Instead, it is argued that a general purpose technology is replacing its technoeconomic predecessor.

2. Record Nr. UNINA9910831179703321 Autore Slezov V. V (Vitalii Valentinovich) Titolo Kinetics of first order phase transitions [[electronic resource] /] / by Vitaly V. Slezov Pubbl/distr/stampa Weinheim,: Wiley-VCH Chichester, : John Wiley [distributor], c2009 **ISBN** 1-282-68706-9 9786612687068 3-527-62776-6 3-527-62777-4 Descrizione fisica 1 online resource (431 p.) Disciplina 530.414 Soggetti Phase transformations (Statistical physics) Statistical physics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Kinetics of First-order Phase Transitions; Contents; Foreword; Preface; 1 Introduction; 2 Basic Equations: Determination of the Coefficients of Emission in Nucleation Theory; 2.1 Introduction; 2.2 Basic Kinetic Equations: 2.3 Ratio of the Coefficients of Absorption and Emission of Particles; 2.3.1 Traditional Approach; 2.3.2 A New Method of Determination of the Coefficients of Emission; 2.3.3 Applications; 2.4 Generalization to Multicomponent Systems; 2.4.1 Traditional Approach; 2.4.2 New Approach; 2.4.3 Applications; 2.5 Generalization to Arbitrary **Boundary Conditions** 2.6 Initial Conditions for the Cluster-Size Distribution Function2.7 Description of Cluster Ensemble Evolution along a Given Trajectory; 2.7.1 Motivation; 2.7.2 Effective Diffusion Coefficients; 2.7.3 Evolution of the Cluster-Size Distribution Functions: 2.8 Conclusions: 3 Kinetics of Nucleation-Growth Processes: The First Stages; 3.1 Introduction; 3.2 Basic Kinetic Equations; 3.3 Nonsteady-State Effects in the Initial Stage of Nucleation; 3.3.1 Approximative Solution in the Range 1 (<~) n (<~)

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n(c) - n(c)

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Distribution Function into a Universal One

Sommario/riassunto

Filling a gap in the literature, this crucial publication on the renowned Lifshitz-Slezov-Wagner Theory of first-order phase transitions is authored by one of the scientists who gave it its name. Prof Slezov spent decades analyzing this topic and obtained a number of results that form the cornerstone of this rapidly developing branch of science. Following an analysis of unresolved problems together with proposed solutions, the book develops a theoretical description of the overall course of first-order phase transformations, starting from the nucleation state right up to the late stages of