

1. Record Nr.	UNINA9910134027703321
Autore	Arkhangelskii I. V (Igor Valentinovich)
Titolo	Non-Isothermal Kinetic Methods: Workbook and Laboratory Manual
Pubbl/distr/stampa	Edition Open Access, 2013
Descrizione fisica	1 electronic resource (73 p.)
Collana	Textbooks 1: Max Planck Research Library for the History and Development of Knowledge
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>In the modern world of ever-advancing technologies, actual tests of products and processes are more and more often preceded, if not replaced, by computer modeling. This saves the time and resources required for actual tests, and enables a better understanding of processes that occur in the course of tests. Preliminary computer modeling favors prudent planning of experiments. Calculations in thermal analysis are used everywhere, for example, in estimating the efficiency of thermal insulation of pipelines and in estimating the critical overheating conditions for some chemical substances under which their decomposition, self-heating, explosion, and so forth, occurs. This methodical manual focuses on a small aspect of calculations in thermal analysis dealing with constructing kinetic models from thermogravimetry and differential scanning calorimetry experimental data.</p>