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| Autore                  | Sørland Geir Humborstad   |
| Titolo                  | Dynamic Pulsed-Field-Gradient NMR // by Geir Humborstad Sørland   |
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| ISBN                    | 3-662-44500-X   |
| Edizione                | [1st ed. 2014.]   |
| Descrizione fisica      | 1 online resource (364 p.)  |
| Collana                 | Springer Series in Chemical Physics, , 0172-6218 ; ; 110  |
| Disciplina              | 530.8<br>54<br>541<br>543   |
| Soggetti                | Chemistry, Physical and theoretical<br>Physical measurements<br>Measurement<br>Spectrum analysis<br>Microscopy<br>Analytical chemistry<br>Physical Chemistry<br>Measurement Science and Instrumentation<br>Spectroscopy and Microscopy<br>Analytical Chemistry  |
| 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 and index.  |
| Nota di contenuto       | Diffusion in heterogeneous media -- Relaxation -- PFG-NMR pulse sequences -- Analysis of 1- and 2D data -- Experimental aspects -- Applications.  |
| Sommario/riassunto      | Dealing with the basics, theory and applications of dynamic pulsed-field-gradient NMR (PFG NMR), this book describes the essential theory behind diffusion in heterogeneous media that can be combined with NMR measurements to extract important information of the system being investigated. This information could be the surface to volume ratio, droplet size distribution in emulsions, brine profiles, fat content in food stuff, permeability/connectivity in porous materials and |

medical applications currently being developed. Besides theory and applications it will provide the readers with background knowledge on the experimental set-ups, and most important, deal with the pitfalls that are numerously present in work with PFG-NMR. How to analyze the NMR data and some important basic knowledge on the hardware will be explained, too.

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