1.	Record Nr.	UNINA9910788955703321
	Autore	Amirov A. Kh
	Titolo	Integral geometry and inverse problems for kinetic equations / / A. Kh. Amirov
	Pubbl/distr/stampa	Utrecht ; ; Boston : , : VSP, , 2001
	ISBN	3-11-094094-9
	Edizione	[Reprint 2014]
	Descrizione fisica	1 online resource (209 pages)
	Collana	Inverse and ill-posed problems series, , 1381-4524
	Disciplina	516.3/62
	Soggetti	Integral geometry Inverse problems (Differential equations) Chemical kinetics - Mathematics
	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.
	Nota di contenuto	Frontmatter -- Abstract -- Contents -- Introduction -- Chapter 1. Solvability of problems of integral geometry -- Chapter 2. Inverse problems for kinetic equations -- Chapter 3. Evolutionary equations -- Chapter 4. Inverse problems for second order differential equations -- Appendix . -- Bibliography
	Sommario/riassunto	In this monograph a method for proving the solvability of integral geometry problems and inverse problems for kinetic equations is presented. The application of this method has led to interesting problems of the Dirichlet type for third order differential equations, the solvability of which appears to depend on the geometry of the domain for which the problem is stated. Another considered subject is the problem of integral geometry on paraboloids, in particular the uniqueness of solutions to the Goursat problem for a differential inequality, which implies new theorems on the uniqueness of solutions to this problem for a class of quasilinear hyperbolic equations. A class of multidimensional inverse problems associated with problems of integral geometry and the inverse problem for the quantum kinetic equations are also included.