Record Nr.	UNISA996466511403316
Autore	Laudal Olav Arnfinn
Titolo	Local moduli and singularities / / Olav Arnfinn Laudal, Gerhard Pfister
Pubbl/distr/stampa	Berlin, Germany : , : Springer, , [1988] ©1988
ISBN	3-540-39153-3
Edizione	[1st ed. 1988.]
Descrizione fisica	1 online resource (VIII, 120 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1310
Disciplina	516.35
Soggetti	Moduli theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	The prorepresenting substratum of the formal moduli Automorphisms of the formal moduli The kodaira-spencer map and its kernel Applications to isolated hypersurface singularities Plane curve singularities with k*-action The generic component of the local moduli suite The moduli suite of x 1 5 +x 2 11.
Sommario/riassunto	This research monograph sets out to study the notion of a local moduli suite of algebraic objects like e.g. schemes, singularities or Lie algebras and provides a framework for this. The basic idea is to work with the action of the kernel of the Kodaira-Spencer map, on the base space of a versal family. The main results are the existence, in a general context, of a local moduli suite in the category of algebraic spaces, and the proof that, generically, this moduli suite is the quotient of a canonical filtration of the base space of the versal family by the action of the Kodaira-Spencer kernel. Applied to the special case of quasihomogenous hypersurfaces, these ideas provide the framework for the proof of the existence of a coarse moduli scheme for plane curve singularities with fixed semigroup and minimal Tjurina number . An example shows that for arbitrary the corresponding moduli space is not, in general, a scheme. The book addresses mathematicians working on problems of moduli, in algebraic or in complex analytic geometry. It assumes a working knowledge of deformation theory.

1.