Record Nr. Autore Titolo	UNISA996466601703316 Urabe Tohsuke <1953-2011, > Dynkin graphs and quadrilateral singularities / / Tohsuke Urabe
Pubbl/distr/stampa	Berlin ; ; Heidelberg : , : Springer-Verlag, , [1993] ©1993
ISBN	3-540-47769-1
Edizione	[1st ed. 1993.]
Descrizione fisica	1 online resource (CCXLVIII, 242 p.)
Collana	Lecture Notes in Mathematics ; ; Volume 1548
Disciplina	516.35
Soggetti	Singularities (Mathematics) Hypersurfaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Quadrilateral singularities and elliptic K3 surfaces Theorems with the Ik-conditions for J 3,0, Z 1,0 and Q 2,0 Obstruction components Concept of co-root modules.
Sommario/riassunto	The study of hypersurface quadrilateral singularities can be reduced to the study of elliptic K3 surfaces with a singular fiber of type I * 0 (superscript *, subscript 0), and therefore these notes consider, besides the topics of the title, such K3 surfaces too. The combinations of rational double points that can occur on fibers in the semi-universal deformations of quadrilateral singularities are examined, to show that the possible combinations can be described by a certain law from the viewpoint of Dynkin graphs. This is equivalent to saying that the possible combinations of singular fibers in elliptic K3 surfaces with a singular fiber of type I * 0 (superscript *, subscript 0) can be described by a certain law using classical Dynkin graphs appearing in the theory of semi-simple Lie groups. Further, a similar description for thecombination of singularities on plane sextic curves is given. Standard knowledge of algebraic geometry at the level of graduate students is expected. A new method based on graphs will attract attention of researches.

1.