1.	Record Nr.	UNINA9910300137803321
	Autore	Loi Andrea
	Titolo	Kähler Immersions of Kähler Manifolds into Complex Space Forms / / by Andrea Loi, Michela Zedda
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
	ISBN	3-319-99483-2
	Edizione	[1st ed. 2018.]
	Descrizione fisica	1 online resource (105 pages)
	Collana	Lecture Notes of the Unione Matematica Italiana, , 1862-9113 ; ; 23
	Disciplina	515.73
	Soggetti	Differential geometry
		Functions of complex variables
		Differential Geometry
		Several Complex Variables and Analytic Spaces
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	 The Diastasis Function Calabi's Criterion Homogeneous Kähler manifolds Kähler-Einstein Manifolds Hartogs Type Domains Relatives Further Examples and Open Problems.
	Sommario/riassunto	The aim of this book is to describe Calabi's original work on Kähler immersions of Kähler manifolds into complex space forms, to provide a detailed account of what is known today on the subject and to point out some open problems. Calabi's pioneering work, making use of the powerful tool of the diastasis function, allowed him to obtain necessary and sufficient conditions for a neighbourhood of a point to be locally Kähler immersed into a finite or infinite-dimensional complex space form. This led to a classification of (finite-dimensional) complex space forms admitting a Kähler immersion into another, and to decades of further research on the subject. Each chapter begins with a brief summary of the topics to be discussed and ends with a list of exercises designed to test the reader's understanding. Apart from the section on Kähler immersions of homogeneous bounded domains into the infinite complex projective space, which could be skipped without compromising the understanding of the rest of the book, the prerequisites to read this book are a basic knowledge of complex and Kähler geometry.