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	Titolo	Dessins d'enfants on Riemann surfaces / / by Gareth A. Jones, Jürgen Wolfart
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	ISBN	3-319-24711-5
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (264 p.)
	Collana	Springer Monographs in Mathematics, , 1439-7382
	Disciplina	510
	Soggetti	Algebraic geometry
		Group theory
		Functions of complex variables
		Hyperbolic geometry
		Algebraic Geometry
		Group Theory and Generalizations
		Functions of a Complex Variable
		Several Complex Variables and Analytic Spaces
		Hyperbolic Geometry
	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Historical and introductory background -- Graph embeddings -- Dessins and triangle groups -- Galois actions -- Quasiplatonic surfaces, and automorphisms -- Regular maps -- Regular embeddings of complete graphs -- Wilson operations -- Further examples -- Arithmetic aspects -- Beauville surfaces.
	Sommario/riassunto	This volume provides an introduction to dessins d'enfants and embeddings of bipartite graphs in compact Riemann surfaces. The first part of the book presents basic material, guiding the reader through the current field of research. A key point of the second part is the interplay between the automorphism groups of dessins and their Riemann surfaces, and the action of the absolute Galois group on dessins and their algebraic curves. It concludes by showing the links between the theory of dessins and other areas of arithmetic and geometry, such as the abc conjecture, complex multiplication and

Beauville surfaces. Dessins d'Enfants on Riemann Surfaces will appeal to graduate students and all mathematicians interested in maps, hypermaps, Riemann surfaces, geometric group actions, and arithmetic.