1. Record Nr. UNINA9910960760203321

Autore	David Guy
Titolo	Elliptic Theory for Sets with Higher Co-Dimensional Boundaries
Pubbl/distr/stampa	Providence : , : American Mathematical Society, , 2022 ©2021
ISBN	9781470469153 1470469154
Edizione	[1st ed.]
Descrizione fisica	1 online resource (136 pages)
Collana	Memoirs of the American Mathematical Society ; ; v.274
Classificazione	31B0535J2528A7528A7835J7042B2042B2542B37
Altri autori (Persone)	FeneuilJoseph MayborodaSvitlana
Disciplina	518/.64
Soggetti	Differential equations, Elliptic Degenerate differential equations Harmonic functions Harmonic analysis Boundary value problems Potential theory -- Higher-dimensional theory -- Harmonic, subharmonic, superharmonic functions Partial differential equations -- Elliptic equations and systems -- Boundary value problems for second-order elliptic equations Measure and integration -- Classical measure theory -- Length, area, volume, other geometric measure theory Measure and integration -- Classical measure theory -- Hausdorff and packing measures Partial differential equations -- Elliptic equations and systems -- Degenerate elliptic equations Harmonic analysis on Euclidean spaces -- Harmonic analysis in several variables -- Singular and oscillatory integrals (Calderon-Zygmund, etc.) Harmonic analysis on Euclidean spaces -- Harmonic analysis in several variables -- Maximal functions, Littlewood-Paley theory Harmonic analysis on Euclidean spaces -- Harmonic analysis in several variables -- Harmonic analysis and PDE
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"November 2021, volume 274."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The Harnack chain condition and the doubling property -- Traces --

	Poincare inequalities -- Completeness and density of smooth functions -- The chain rule and applications -- The extension operator -- Definition of solutions -- Harmonic measure -- Green functions -- The comparison principle.
Sommario/riassunto	"Many geometric and analytic properties of sets hinge on the properties of elliptic measure, notoriously missing for sets of higher co-dimension. The aim of this manuscript is to develop a version of elliptic theory, associated to a linear PDE, which ultimately yields a notion analogous to that of the harmonic measure, for sets of codimension higher than 1"--