

1. Record Nr.	UNISA996466480203316
Autore	Mitrea Irina
Titolo	Multi-Layer Potentials and Boundary Problems [[electronic resource] ] : for Higher-Order Elliptic Systems in Lipschitz Domains / / by Irina Mitrea, Marius Mitrea
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-32666-8
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Descrizione fisica	1 online resource (X, 424 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2063
Disciplina	515.35
Soggetti	Potential theory (Mathematics) Partial differential equations Integral equations Fourier analysis Potential Theory Partial Differential Equations Integral Equations Fourier Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (pages 405-410) and indexes.
Nota di contenuto	1 Introduction -- 2 Smoothness scales and Calderón-Zygmund theory in the scalar-valued case -- 3 Function spaces of Whitney arrays -- 4 The double multi-layer potential operator -- 5 The single multi-layer potential operator -- 6 Functional analytic properties of multi-layer potentials and boundary value problems.
Sommario/riassunto	Many phenomena in engineering and mathematical physics can be modeled by means of boundary value problems for a certain elliptic differential operator in a given domain. When the differential operator under discussion is of second order a variety of tools are available for dealing with such problems, including boundary integral methods, variational methods, harmonic measure techniques, and methods based on classical harmonic analysis. When the differential operator is of higher-order (as is the case, e.g., with anisotropic plate bending when one deals with a fourth order operator) only a few options could

be successfully implemented. In the 1970s Alberto Calderón, one of the founders of the modern theory of Singular Integral Operators, advocated the use of layer potentials for the treatment of higher-order elliptic boundary value problems. The present monograph represents the first systematic treatment based on this approach. This research monograph lays, for the first time, the mathematical foundation aimed at solving boundary value problems for higher-order elliptic operators in non-smooth domains using the layer potential method and addresses a comprehensive range of topics, dealing with elliptic boundary value problems in non-smooth domains including layer potentials, jump relations, non-tangential maximal function estimates, multi-traces and extensions, boundary value problems with data in Whitney–Lebesgue spaces, Whitney–Besov spaces, Whitney–Sobolev-based Lebesgue spaces, Whitney–Triebel–Lizorkin spaces, Whitney–Sobolev-based Hardy spaces, Whitney–BMO and Whitney–VMO spaces.

2. Record Nr.	UNINA9910672801303321
Autore	Boitani, Andrea
Titolo	Macroeconomics / Andrea Boitani
Pubbl/distr/stampa	Bologna, : il Mulino, 2023
ISBN	978--88-15-38307-5
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Locazione	DECBC
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Lingua di pubblicazione	Inglese
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