

1. Record Nr.	UNINA9910481000603321
Autore	Mitrea Dorina <1965->
Titolo	Layer potentials, the Hodge Laplacian, and global boundary problems in nonsmooth Riemannian manifolds // Dorina Mitrea, Marius Mitrea, Michael Taylor
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2001
ISBN	1-4704-0306-4
Descrizione fisica	1 online resource (137 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 713
Disciplina	510 s 516.3/73
Soggetti	Riemannian manifolds Boundary value problems Differential equations, Elliptic - Numerical solutions Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 150, number 713 (fourth of 5 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Introduction""; ""Chapter 1. Singular integrals on Lipschitz submanifolds of codimension one""; ""Chapter 2. Estimates on fundamental solutions""; ""Chapter 3. General second-order strongly elliptic systems""; ""Chapter 4. The Dirichlet problem for the Hodge Laplacian and related operators""; ""Chapter 5. Natural boundary problems for the Hodge Laplacian in Lipschitz domains""; ""Chapter 6. Layer potential operators on Lipschitz domains""; ""Chapter 7. Rellich type estimates for differential forms"" ""Chapter 8. Fredholm properties of boundary integral operators on regular spaces"" ""Chapter 9. Weak extensions of boundary derivative operators""; ""Chapter 10. Localization arguments and the end of the proof of Theorem 6.2""; ""Chapter 11. Harmonic fields on Lipschitz domains""; ""Chapter 12. The proofs of the Theorems 5.1-5.5""; ""Chapter 13. The proofs of the auxiliary lemmas""; ""Chapter 14. Applications to Maxwell's equations on Lipschitz domains""; ""Appendix A. Analysis on Lipschitz manifolds""; ""Appendix B. The connection between $d_{\text{a}}$ and $d_{\text{a}}^{\text{!}}$ ""; ""Bibliography""

