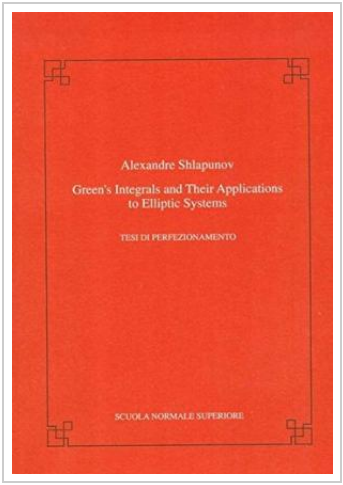

Green's Integrals and Their Applications to Elliptic Systems

By Alexandre Shlapunov

Birkhauser Verlag AG. Paperback. Book Condition: new. BRAND NEW, Green's Integrals and Their Applications to Elliptic Systems, Alexandre Shlapunov, The theory of elliptic complexes of linear partial differential operators is closely interwoven with complex analysis. In particular, the Dolbeault complex is at the same time an important example of an elliptic complex and a tool for investigating more general ones. This thesis is mainly concerned with integral representations. The formula of Martinelli-Bochner provides one of the simplest integral representations for holomorphic functions. In this research I am concerned with elliptic systems, both determined and overdetermined. They admit, locally, left fundamental solutions. Green's integrals associated to them are natural analogues of the Martinelli-Bochner integral of complex analysis. In this dissertation I apply Green's integrals to the Cauchy problem for elliptic systems and to the question of the validity of the Poincare lemma for elliptic differential complexes.

Reviews

A really amazing ebook with lucid and perfect answers. It is really simplistic but excitement in the 50 % in the publication. I am just happy to explain how this is actually the best pdf i actually have study during my individual daily life and may be he greatest ebook for possibly.

-- ***Toney Bogan***

A really wonderful ebook with perfect and lucid answers. It is rally interesting throgh looking at period of time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Gustave Moore***