Vector Bundles On Complex Projective Spaces: With An Appendix By S. I. Gelfand (Modern BirkhÃ¤user Classics)

Synopsis

These lecture notes are intended as an introduction to the methods of classi?cation of holomorphic vector bundles over projective algebraic manifolds X. To be as concrete as possible we have mostly restricted ourselves to the case X = P . According to Serre (GAGA) the class- n cation of holomorphic vector bundles is equivalent to the classi?cation of algebraic vector bundles. Here we have used almost exclusively the language of analytic geometry. The book is intended for students who have a basic knowledge of analytic and (or) algebraic geometry. Some fundamental results from these ?elds are summarized at the beginning. One of the authors gave a survey in the SÂ´eminaire Bourbaki 1978 on the current state of the classi?cation of holomorphic vector bundles over P . This lecture then served as the basis for a course of lectures n in GÂ¨ottingen in the Winter Semester 78/79. The present work is an extended and up-dated exposition of that course. Because of the - troductory nature of this book we have had to leave out some di?cult topics such as the restriction theorem of Barth. As compensation we have appended to each section a paragraph in which historical remarks are made, further results indicated and unsolved problems presented. The book is divided into two chapters. Each chapter is subdivided into several sections which in turn are made up of a number of pa- graphs. Each section is preceded by a short description of its contents.

Book Information

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Customer Reviews

This expository treatment is based on a survey given by one of the authors at the SÃ©minaire

Bourbaki in November 1978 and on a subsequent course held at the University of GÃ¶ttingen. It is intended to serve as an introduction to the topical question of classification of holomorphic vector bundles on complex projective spaces, and can easily be read by students with a basic knowledge of analytic or algebraic geometry. Short supplementary sections describe more advanced topics, further results, and unsolved problems. This is a corrected third printing with an Appendix by S. I. Gelfand.Â ------Â The present book is the first one, within the extensive literature on algebraic vector bundles, to give both a self-contained introduction to the basic methods and an exposition of the current state of the classification theory of algebraic vector bundles over Pn(C). (â ‖) The reviewer thinks that readers should be grateful to the authors for presenting the first detailed, self-contained and systematic textbook on vector bundles over projective varieties. They have put in a lot of their own results to simplify and to systematize many proofs, and to lead the reader to the current research in this field as quickly as possible.(Mathematical Reviews)Â (â ‖) every section ends with historical comments, further results, and open questions. This brings the reader up to date and provides a guide for further work.(Bulletin of the American Mathematical Society)Â (â ‖) the fundamental appendix essentially enhance this outstanding standard textbook and research monograph on vector bundles.(Mathematical Reviews)

Christian Okonek is Professor for mathematics at the University of Zurich. Michael Schneider was Professor for algebraic geometry at the University of Bayreuth, deceased in 1997. Heinz Spindler is Professor for mathematics at the University of OsnabrÃ ck.

good

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