1.	Record Nr.	UNINA9910154754803321
	Autore	Milnor John
	Titolo	Characteristic Classes. (AM-76), Volume 76 / / John Milnor, James D. Stasheff
	Pubbl/distr/stampa	Princeton, NJ : , : Princeton University Press, , [2016] ©1974
	ISBN	1-4008-8182-X
	Descrizione fisica	1 online resource (339 pages) : illustrations
	Collana	Annals of Mathematics Studies ; ; 246
	Disciplina	514/.7
	Soggetti	Characteristic classes
	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 and index.
	Nota di contenuto	Frontmatter Preface Contents §1. Smooth Manifolds §2. Vector Bundles §3. Constructing New Vector Bundles Out of Old §4. Stiefel-Whitney Classes §5. Grassmann Manifolds and Universal Bundles §6. A Cell Structure for Grassmann Manifolds §7. The Cohomology Ring H*(Gn; Z/2) §8. Existence of Stiefel-Whitney Classes §9. Oriented Bundles and the Euler Class §10. The Thom Isomorphism Theorem §11. Computations in a Smooth Manifold §12. Obstructions §13. Complex Vector Bundles and Complex Manifolds §14. Chern Classes §15. Pontrjagin Classes §16. Chern Numbers and Pontrjagin Numbers §17. The Oriented Cobordism Ring * §18. Thom Spaces and Transversality §19. Multiplicative Sequences and the Signature Theorem §20. Combinatorial Pontrjagin Classes Epilogue Appendix A: Singular Homology and Cohomology Appendix B: Bernoulli Numbers Appendix C: Connections, Curvature, and Characteristic Classes Bibliography Index
	Sommario/riassunto	The theory of characteristic classes provides a meeting ground for the various disciplines of differential topology, differential and algebraic geometry, cohomology, and fiber bundle theory. As such, it is a fundamental and an essential tool in the study of differentiable manifolds. In this volume, the authors provide a thorough introduction to characteristic classes, with detailed studies of Stiefel-Whitney classes, Chern classes, Pontrjagin classes, and the Euler class. Three

appendices cover the basics of cohomology theory and the differential
forms approach to characteristic classes, and provide an account of
Bernoulli numbers.Based on lecture notes of John Milnor, which first
appeared at Princeton University in 1957 and have been widely studied
by graduate students of topology ever since, this published version has
been completely revised and corrected.