

C O N T E N T S

Introduction	Page 1
Lecture 1: Transversally Elliptic Operators	Page 3
Lecture 2: The Index of Transversally Elliptic Operators	Page 9
Lecture 3: The Excision and Multiplicative Properties	Page 18
Lecture 4: The Naturality of the Index and the Localization Theorem	Page 27
Lecture 5: The Index Homomorphism for $G = S^1$	Page 36
Lecture 6: The Operators $\bar{\partial}^{\pm}$ for $G = S^1$	Page 44
Lecture 7: Toral Actions with Finite Isotropy Groups	Page 55
Lecture 8: The Index Homomorphism for $G = T^n$	Page 65
Lecture 9: The Cohomology Formula	Page 69
Lecture 10: Applications	Page 81
References	Page 92