

# Contents

Introduction	1
Chapter 1. Equivariant spectra	5
1.1. Orthogonal $G$ -spectra	5
1.2. The stable model structure	14
1.3. The $G$ -equivariant stable homotopy category	32
1.4. Change of groups	38
Chapter 2. Equivariant homotopy groups	61
2.1. $G$ -equivariant homotopy groups	61
2.2. Equivariant homotopy groups as Mackey functors	71
2.3. Rational proper stable homotopy theory	78
Chapter 3. Proper equivariant cohomology theories	83
3.1. Excisive functors from $G$ -spectra	83
3.2. Proper cohomology theories from $G$ -spectra	104
3.3. Global versus proper stable homotopy types	113
3.4. Equivariant K-theory	121
Bibliography	137
Index	141