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Autore	Gilli, Gian Antonio <1938- >
Titolo	Sulla colonna : Le basi corporee sull'esperienza ascetica / Gian Antonio Gilli
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Autore	Ceccherini-Silberstein Tullio
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Nota di contenuto	Intro -- Preface -- Contents -- 1 Preliminaries -- 1.1 Representations of Finite Groups -- 1.2 The Group Algebra and the Left-Regular Representation -- 1.3 Induced Representations -- 1.4 Further Results on Induced Representations -- 1.5 Semidirect Products, Wreath Products, and Group Extensions -- 1.6 Regular Wreath Products and the Kaloujnine-KrasnerTheorem -- 2 Clifford Theory -- 2.1 Preliminaries and Notation -- 2.2 Basic Clifford Theory -- 2.3 First Applications and the Little Group Method -- 2.4 The Case Where AG() -1.2mu=IG()/N is Abelian -- 2.5 Some Applications of Mackey Theory to Clifford Theory -- 2.6 The G-Action on the N-Conjugacy Classes -- 2.7 Real, Complex, and Quaternionic Representations and Clifford Theory -- 2.8 Semidirect Products with an Abelian Normal Subgroup -- 2.9 Semidirect Products of Abelian Groups -- 2.10 Representation Theory of Wreath Products of Finite Groups -- 2.11 Multiplicity-Free Normal Subgroups -- 3 Abelian Extensions -- 3.1 The Dual Action -- 3.2 The Conjugation Action -- 3.3 The Intermediary Representations -- 3.4 Diagrammatic Summaries -- 4 The Little Group Method for Abelian Extensions -- 4.1 General Theory -- 4.2 Normal Subgroups with the

Sommario/riassunto

This monograph adopts an operational and functional analytic approach to the following problem: given a short exact sequence (group extension) 1 N G H 1 of finite groups, describe the irreducible representations of G by means of the structure of the group extension. This problem has attracted many mathematicians, including I. Schur, A. H. Clifford, and G. Mackey and, more recently, M. Isaacs, B. Huppert, Y. G. Berkovich & E.M. Zhmud, and J.M.G. Fell & R.S. Doran. The main topics are, on the one hand, Clifford Theory and the Little Group Method (of Mackey and Wigner) for induced representations, and, on the other hand, Kirillov’s Orbit Method (for step-2 nilpotent groups of odd order) which establishes a natural and powerful correspondence between Lie rings and nilpotent groups. As an application, a detailed description is given of the representation theory of the alternating groups, of metacyclic, quaternionic, dihedral groups, and of the (finite) Heisenberg group. The Little Group Method may be applied if and only if a suitable unitary 2-cocycle (the Mackey obstruction) is trivial. To overcome this obstacle, (unitary) projective representations are introduced and corresponding Mackey and Clifford theories are developed. The commutant of an induced representation and the relative Hecke algebra is also examined. Finally, there is a comprehensive exposition of the theory of projective representations for finite Abelian groups which is applied to obtain a complete description of the irreducible representations of finite metabelian

groups of odd order.