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Nota di contenuto	""Contents""; ""Preface""; ""Definitions: operads, algebras and modules""; ""The pre-history of operads""; ""Operads, algebras, and modules""; ""Relating the associahedron and the permutohedron""; ""Combinatorial models for real configuration spaces and En-operads""; ""From operads to 'physically' inspired theories""; ""Operades des algebres (k + 1)-aires""; ""Coproduct and cogroups in the category of graded dual Leibniz algebras""; ""Cohomology of monoids in monoidal categories""; ""Distributive laws, bialgebras, and cohomology""; ""Deformations of algebras over a quadratic operad"" ""Q-rings and the homology of the symmetric groups"" Introduction""; ""1. Q-rings and modules""; ""2. The Kudo-Araki algebra K and its dual""; ""3. Free Q-rings""; ""4. The extended Milnor coalgebra A""; ""5. The Nishida relations""; ""6. Q-coalgebras""; ""Appendix A""; ""Appendix B""; ""Appendix C""; ""References""; ""Operadic tensor products and smash products""; ""Homotopy Gerstenhaber algebras and topological field theory""; ""Intertwining operator algebras, genus-

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