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   Disciplina 364/.05

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2.	Record Nr.	UNINA9910791451803321
	Autore	Cvitanovic Predrag
	Titolo	Group theory [[electronic resource]] : birdtracks, Lie's, and exceptional groups / / Predrag Cvitanovic
	Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, c2008
	ISBN	1-282-96480-1
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	Edizione	[Course Book]
	Descrizione fisica	1 online resource (278 p.)
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	Formato	Materiale a stampa
	Livello bibliografico	Monografia
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	Nota di bibliografia	Includes bibliographical references (p. [251]-268) and index.
	Nota di contenuto	Frontmatter -- Contents -- Acknowledgments -- Chapter One. Introduction -- Chapter Two. A preview -- Chapter Three. Invariants and reducibility -- Chapter Four. Diagrammatic notation -- Chapter Five. Recouplings -- Chapter Six. Permutations -- Chapter Seven. Casimir operators -- Chapter Eight. Group integrals -- Chapter Nine. Unitary groups -- Chapter Ten. Orthogonal groups -- Chapter Eleven. Spinors -- Chapter Twelve. Symplectic groups -- Chapter Thirteen. Negative dimensions -- Chapter Fourteen. Spinors' symplectic sisters -- Chapter Fifteen. SU(n) family of invariance groups -- Chapter Sixteen. G2 family of invariance groups -- Chapter Seventeen. E8 family of invariance groups -- Chapter Eighteen. E6 family of invariance groups -- Chapter Nineteen. F4 family of invariance groups -- Chapter Twenty. E7 family and its negative-dimensional cousins -- Chapter Twenty-One. Exceptional magic -- Appendix A. Recursive decomposition -- Appendix B. Properties of Young projections -- Bibliography -- Index
	Sommario/riassunto	If classical Lie groups preserve bilinear vector norms, what Lie groups preserve trilinear, quadrilinear, and higher order invariants? Answering this question from a fresh and original perspective, Predrag Cvitanovic takes the reader on the amazing, four-thousand-diagram journey through the theory of Lie groups. This book is the first to systematically develop, explain, and apply diagrammatic projection operators to

construct all semi-simple Lie algebras, both classical and exceptional. The invariant tensors are presented in a somewhat unconventional, but in recent years widely used, "birdtracks" notation inspired by the Feynman diagrams of quantum field theory. Notably, invariant tensor diagrams replace algebraic reasoning in carrying out all group-theoretic computations. The diagrammatic approach is particularly effective in evaluating complicated coefficients and group weights, and revealing symmetries hidden by conventional algebraic or index notations. The book covers most topics needed in applications from this new perspective: permutations, Young projection operators, spinorial representations, Casimir operators, and Dynkin indices. Beyond this well-traveled territory, more exotic vistas open up, such as "negative dimensional" relations between various groups and their representations. The most intriguing result of classifying primitive invariants is the emergence of all exceptional Lie groups in a single family, and the attendant pattern of exceptional and classical Lie groups, the so-called Magic Triangle. Written in a lively and personable style, the book is aimed at researchers and graduate students in theoretical physics and mathematics.