

Harmonic Superspace

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The inventors of harmonic superspace present a clear account of the theory and its applications. This is a pedagogical introduction to the harmonic superspace method in extended supersymmetry. Inspired by exciting developments in superstring theory, it provides a systematic treatment of the quantum field theories with $N=2$ and $N=3$ supersymmetry in harmonic superspace. The authors present the harmonic superspace approach as a means of providing an off-shell description of the $N=2$ supersymmetric theories, both at the classical and quantum levels. Furthermore, they show how it offers a unique way to construct an off-shell formulation of a theory with higher supersymmetry, namely the $N=3$ supersymmetric Yang-Mills theory. Harmonic Superspace makes manifest many remarkable geometric properties of the $N=2$ theories, for example, the one-to-one correspondence between $N=2$ supersymmetric matter, and hyper-Kaehler and quaternionic manifolds. This book will be of interest to researchers and graduate students working in the areas of supersymmetric quantum field theory, string theory and complex geometries. EAN/ISBN : 9780511032363 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Galperin, A. S. - Ivanov, E. A. - Ogievetsky, V. I.

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