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### Supersymmetry Demystified - $\hat{U}(1) \times \hat{U}(1)$

Supersymmetry Demystified 68 4.1 Charge Conjugation and Antiparticles for Dirac Spinors Charge conjugation is the operation that turns a  $\psi$ -field describing a certain particle into a  $\bar{\psi}$ -field describing the corresponding antiparticle.

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### Supersymmetry DeMYSTiFied By Patrick Labelle

supersymmetry, the theory that proposes fermions and bosons have superpartners, that is, a fermion like an electron has a sister superpartner particle that is a boson. Superparticles have not been discovered, so if it exists supersymmetry must be

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Written in an easy-to-follow format, Supersymmetry Demystified explains Weyl, Majorana, and Dirac spinors, notations, and supersymmetric lagrangians. Supersymmetric charges and their algebra are discussed, as are interactions and gauge theories.

### Supersymmetry DeMYSTiFied 1st Edition - amazon.com

Preface These lecture notes provide an introduction to supersymmetry with a focus on the non-perturbative dynamics of supersymmetric  $\mathcal{N}=1$  theories.

### An Introduction to Global Supersymmetry

A Supersymmetry Primer Stephen P. Martin Department of Physics, Northern Illinois University, DeKalb IL 60115 ... tions for supersymmetry, the construction of supersymmetric Lagrangians, superspace and superfields, soft supersymmetry-breaking interactions, the Minimal Supersymmetric

### A Supersymmetry Primer

Supersymmetry is a relatively recent development in theoretical physics which has attracted considerable interest and has been actively developed in several different directions [17], [18]. A number of concepts in modern mathematics have significant applications

### SUPERSYMMETRY AND MORSE THEORY

Lectures on Supersymmetry Matteo Bertolini SISSA April 23, 2018 1. Foreword This is a write-up of a course

on Supersymmetry I have been giving for several years to 1st year PhD students attending the curriculum in Theoretical Particle Physics at SISSA, the International School for Advanced Studies of Trieste.

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In particle physics, supersymmetry (SUSY) is a principle that proposes a relationship between two basic classes of elementary particles: bosons, which have an integer-valued spin, and fermions, which have a half-integer spin.

### **Supersymmetry - Wikipedia**

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