



# Gauge Theory of elementary particle physics

By Ta-Pei Cheng, Ling-Fong Li

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This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics. It explains technique and methodology with simple exposition backed up by many illustrative examples. Derivations, some of well known results, are presented in sufficient detail to make the text accessible to readers entering the field for the first time. The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow, Weinberg, and Salam, as well as the grand unification theory, exemplified by the simplest SU(5) model. Not intended as an exhaustive survey, the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory. Physicists with an interest in general aspects of gauge theory will also find the book highly useful.

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### **Review**

'The reader will find a concise review of diagrammatic perturbation theory, path-integral quantization, group theory, and renormalization theory. The more advanced concepts - gauge symmetry, chiral symmetry breaking, the Higgs mechanism, asymptotic freedom and the renormalization group - are treated in greater detail. The exposition of these subjects is judiciously combined with applications to the standard theory in a way that brings life to what otherwise might be dull formalism. [...] it will remain, for a long time to come, an excellent introduction to the comprehensive gauge theory of the electroweak and strong interactions.'

David Goss, Physics Today

### **From the Back Cover**

This book provides students and researchers with a practical introduction to some of the principal ideas in gauge theories and their applications to elementary particle physics.

### **About the Author**

Ta-Pei Cheng is at University of Missouri, St Louis. Ling-Fong Li is at Carnegie Mellon University.

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