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In selecting the papers for this volume I have excluded all

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physics papers proper. I have further omitted all book reviews. Instead, I have included two papers not published previously; they are marked by an asterisk (*) in the table of contents. Since many of the papers were occasioned by Symposia or similar gatherings their chronological order is rather accidental. Hence I have tried to group the papers thematically into four parts. Within each part the order of sequence is from the more general to the more special, or from a more popular to a more technical treatment. The same principle has been applied to the sequential order of the parts. The foundational papers on quantum mechanics have been arranged in a somewhat different manner. Chapters XVI-XIX are concerned with the logic of complementarity while in Chapters XX-XXII a more radical reconceptualization is

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carried out. Two of the older papers (Chapters VI and VIII) have been revised to bring them more into line with present terminology. Other papers have been corrected by additions and omissions. Additions are marked by square brackets [], while double square brackets [[]] signify omissions or parts to be omitted. Hence [[A]] [B] means that 'A' should be replaced by 'B'. The heading of one paper (Chapter XX) has been changed to make it more descriptive.

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have published solutions manuals for two of the texts Introduction to Modern Physics: Theoretical Foundations and Topics in Modern Physics: Theoretical Foundations. The present book provides solutions to the over 180 problems in the remaining text Advanced Modern Physics: Theoretical Foundations. This is the most challenging material, ranging over advanced quantum mechanics, angular momentum, scattering theory, lagrangian field theory, symmetries, Feynman rules, quantum electrodynamics (QED), higher-order processes, path-integrals, and canonical transformations for quantum systems; several appendices supply important details. This solutions manual completes the modern physics series, whose goal is to provide a path through the principal areas of theoretical physics of the

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twentieth century in sufficient detail so that students can obtain an understanding and an elementary working knowledge of the field. While obtaining familiarity with what has gone before would seem to be a daunting task, these volumes should help the dedicated student to find that job less challenging, and even enjoyable.

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