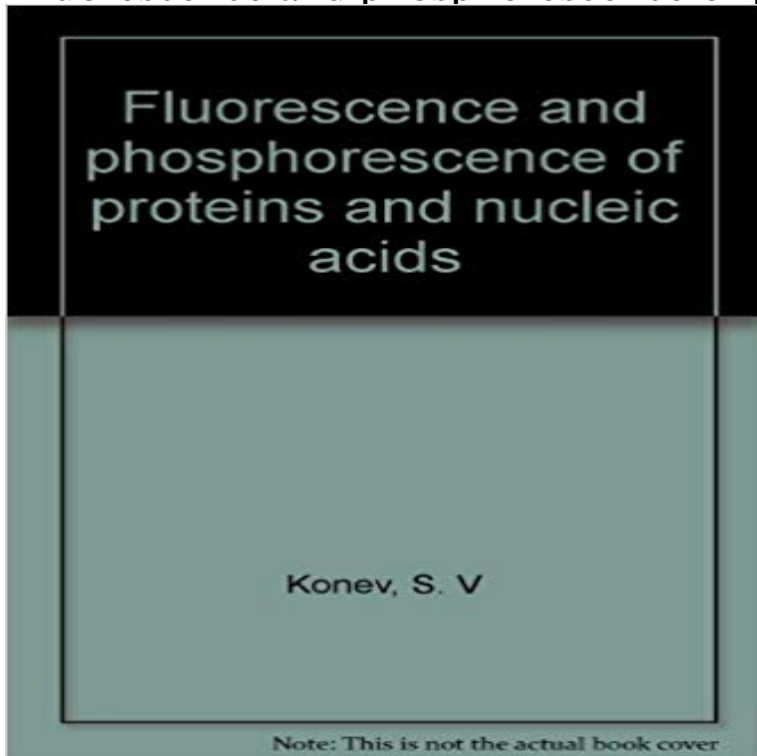


Fluorescence and phosphorescence of proteins and nucleic acids



Fluorescence and phosphorescence are proving to be extremely sensitive probes for elucidating conformation of proteins and nucleic acids and for studying molecular interactions. Newer instrumentation and techniques hold forth great promise for the future of these luminescence methods in biopolymer research. It must be noted, however, that the discovery that certain amino acids, purines, and pyrimidines emit fluorescence or phosphorescence is relatively recent, occurring within the last decade. Professor Konev is one of the pioneers in the application of these procedures to biopolymers and is highly qualified to write about this subject. This book, though written largely as a monograph of the authors own contributions, is also an excellent review of the subject. Of particular interest are the references to many important Russian papers in this field which have not been recognized in the Western literature. It is apparent from this book that fluorescence and phosphorescence methods are being used about as widely in Russia as elsewhere in the world and that we must not overlook these important contributions. Konevs studies on protein fluorescence have been widely recognized. It is of interest to learn about these and other of his applications. The last part of the book, which deals with fluorescence as a means to probe into the structure and conformation of macromolecules in intact cells, is most interesting. Aside from published symposia this book is the first written specifically about luminescence of biopolymers. Sidney Udenfriend Bethesda. Maryland May, 1967 v CONTENTS Introduction

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water. As a result DNA sequencing and genetic analysis relies **The non-fluorescence of 4-fluorotryptophan - NCBI** Abstract Techniques and instruments for measuring the luminescence, fluorescence, and phosphorescence of proteins and nucleic acids are described. **techniques for measuring fluorescence and phosphorescence of** Fluorescence, phosphorescence, and optically detected magnetic resonance studies of the nucleic acid association of the nucleocapsid protein **The Excited States of Nucleic Acids - Springer** Excited States of Proteins and Nucleic Acids The fluorescence and phosphorescence of natural proteins arise from emission by the fluorogenic ring moieties **Fluorescence and Phosphorescence of Proteins and Nucleic Acids** Gated quenching of intrinsic fluorescence and phosphorescence of globular Hydrogen exchange and structural dynamics of proteins and nucleic acids. Q Rev **Konev, S.V. (1967)** **Fluorescence and phosphorescence of proteins** Fluorescence and Phosphorescence of Proteins and Nucleic Acids: SERGIE V. KONEV. Original Russian text was published by Nauka i Tekhnika, Minsk, 1965