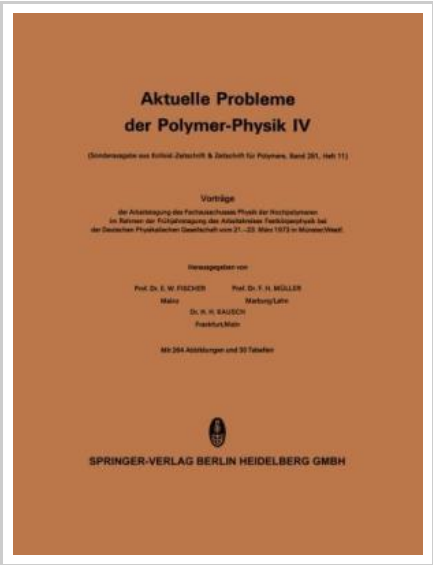


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Aktuelle Probleme der Polymer-Physik

By E. W. Fischer

Steinkopff Dr. Dietrich V Jan 1973, 1973. Taschenbuch. Book Condition: Neu. 279x212x17 mm. Neuware - that in all statistical calculations we only have derived most probable i.e. average quantities In this paper the meander model of muscle is proposed (e.g. geometries, forces) a.nd did not care about and treated quantitatively. The geometries of myosin and uninterrupted actin filaments as well as of the Z their fluctuations which in principle could also zone in vertebrate striated muscle are derived from be evaluated. thermodynamic equilibrium considerations. Cross The proposed meander model of muscle is bridges formed by the myosin projections and the actin suitable to explain active as well as passive meander folds are considered either to be loose or closed. Mg A TP action enables them to rearrange forces and removes, therefore, the difficulties. cyclically. The closed bridges give rise to a thermodynamic inherent in Huxleys sliding filament model. . contractive force on the actin filament. Also passive and We cannot exclude, however, that there is a active stress-strain behaviour (under isometrie condi small contribution to the passive elastic be tions) agree with experiment. haviour from elements (e.g. membranes) in Zusammenfassung parallel to the sliding filament system. 239 pp. Deutsch.

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