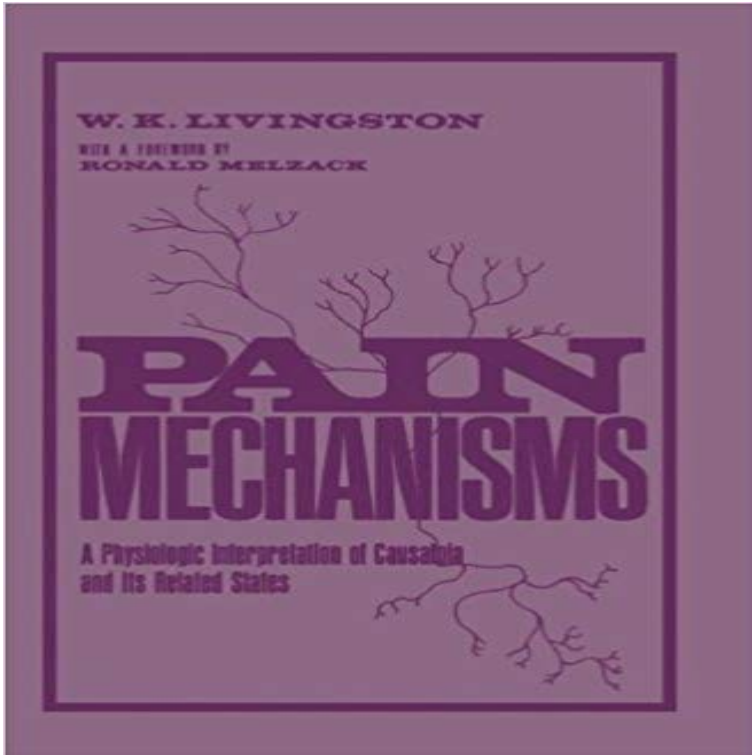


# Pain Mechanisms: A physiologic Interpretation of Causalgia and Its Related States



The field of pain research and theory has suddenly come alive full of new concepts and therapeutic approaches. No one in this century has contributed more to this breakthrough than William Kenneth Livingston. His book, *Pain Mechanisms: A Physiologic Interpretation of Causalgia and Its Related States*, which he published in 1961, was the first major critique of the traditional specificity theory of pain and marked the beginning of new ideas that evolved to produce the remarkable explosion of research and new forms of treatment that have occurred in the past decade. Livingston exposed the weaknesses of the traditional theory. With its concept of a straight-through transmission system, and began an exploration of new concepts: the temporal and spatial patterning of input, the importance of summation mechanisms, the dynamics of reverberatory circuits to account for persistent pathological pain states, the importance of the interneuronal pool, the spinal cord in the gating of input, and the use of anesthetic blocks and stimulation techniques as a way of modulating pain. His book is as exciting today as it was when it was first published. The book was so far ahead of its time that few people in 1961 understood the importance of Livingston's ideas. In historical perspective, it is astonishing to see that Livingston revealed and illuminated even the major pain problem that concerns us today. It is a book that should be read by every serious student of pain in all disciplines. Its profound insights in the psychological.

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