



Reductionism and the Development of Knowledge

By Terrance Brown, Leslie A. Smith

Taylor & Francis Ltd. Paperback. Book Condition: new. BRAND NEW, Reductionism and the Development of Knowledge, Terrance Brown, Leslie A. Smith, Among the many conceits of modern thought is the idea that philosophy, tainted as it is by subjective evaluation, is a shaky guide for human affairs. People, it is argued, are better off if they base their conduct either on know-how with its pragmatic criterion of truth (i.e., possibility) or on science with its universal criterion of rational necessity. Since Helmholtz, there has been increasing concern in the life sciences about the role of reductionism in the construction of knowledge. Is psychophysics really possible? Are biological phenomena just the deducible results of chemical phenomena? And if life can be reduced to molecular mechanisms only, where do these miraculous molecules come from, and how do they work? On a psychological level, people wonder whether psychological phenomena result simply from genetically hardwired structures in the brain or whether, even if not genetically determined, they can be identified with the biochemical processes of that organ. In sociology, identical questions arise. If physical or chemical reduction is not practicable, should we think in terms of other forms of reduction, say, the reduction of...



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