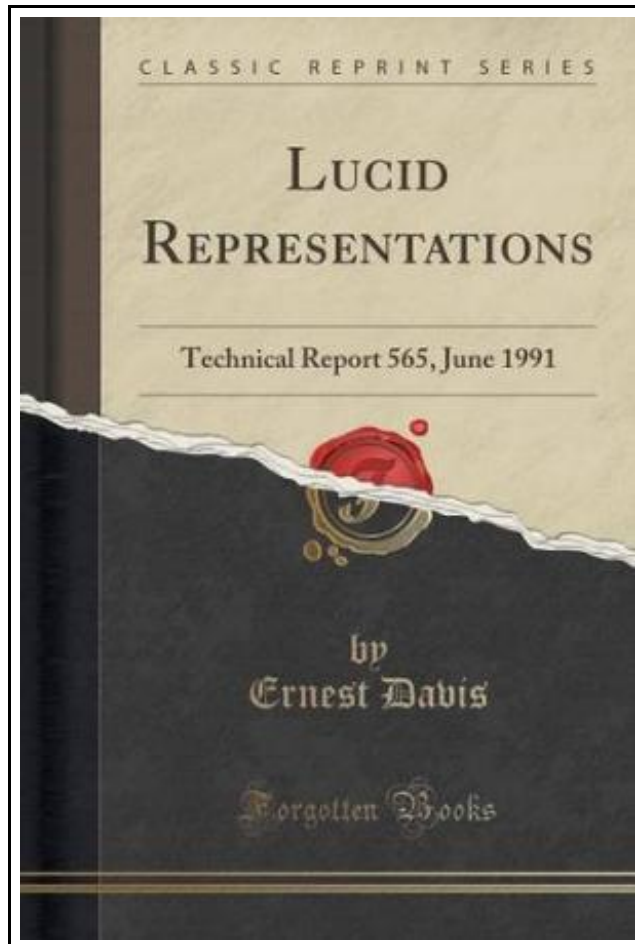


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Lucid Representations: Technical Report 565, June 1991** This paper criticizes the widespread idea that knowledge bases in AI systems should be complete and that representations should be model-like. The arguments in favor of such representations are less cogent and more ambiguous than they appear at first. Levesque s suggestion that representations should be vivid is extremely restrictive, particularly in its uniform imposition of a closed-world assumption. Spatial representations that are adequate for reasoning about a wide range of physical phenomena must ultimately either use complex symbolic reasoning or deal with partial and imperfect approximations. Requiring that temporal representations be fully detailed simulations will often be extremely inefficient. Finally, a flexible intelligent system must necessarily deal with partial information of all kinds, and the techniques for carrying out reasoning about partial information using complete representations are very limited in their application. There is a recurrent idea in the AI research community that representations should resemble models, rather than being an arbitrary collection of formulas or constraints. Like a model, a representation should correspond to one particular way the world could be, certain and complete. Like a model, the representation should characterize the world directly and perspicuously, not give a collection of interacting conditions on it. Answering questions from a model is a matter of checking and measuring rather than of reasoning; so it should be from a representation. This argument has appeared in a variety of forms and contexts. Levesque [1986, 1989] proposes that the core of a knowledge base should be a vivid representation, a collection of atomic formulas satisfying the closed world assumption. Halpern and Vardi [1991] propose that reasoning about knowledge should be...



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