The Theory of Computation

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Solution Manual
Chapter 7, Problem 7.50

This is a very hard problem; as with most of the double-starred problems in this text, the intent is not to assign these problems for the students to solve, but perhaps to assign them as reading material. The pertinent reference here is the 1981 paper of E.W. Leggett, Jr., and D.J Moore, entitled "Optimization problems and the polynomial hierarchy," which appeared in *Theoret. Comput. Sci.* **15** (1981), pp. 279–289.