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Mostafa Ghandehari* (ghandeha@uta.edu), Civil Engineering, Box 19308, University of Texas at Arlington, Arlington, TX 76019, and **Mohammad Najafi**, Civil Engineering, Box 19308, University of Texas at Arlington, Arlington, TX 76019. *Linear Programming Formulation of Pavement Structures.*

American Association of State Highway and Transportation Officials(AASHTO) combines pavement layer properties and thicknesses into one variable called design structural numbers, SN. The set of pavement layer thicknesses for surface course, base and subbase course satisfy linear inequalities. Linear programming is used to minimize cost and maintenance of highway over the period of 20 years. (Received November 24, 2007)