عنوان مقاله:

ASSESSMENT OF TEXTURE AND SKID VARIABLES AT PAVEMENT SURFACE

محل انتشار:

مجله تحقیقات کاربردی, دوره 1, شماره 8 (سال: 1394)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

The surface quality of a pavement determines to a large degree the conditions under which safety can be maintained. Driver control of vehicles is strongly dependent upon pavement surface characteristics. Important surface characteristics include pavement micro texture, macro texture, anddrainage attributes. The pavement surface texture should provide adequate levels of friction and ride quality and maintain low levels of noise androughness. Many transportation departments perform routine skid resistant testing, the type of equipment used for testing varies depending on thepreference of each transportation department. It was felt that modeling of the surface texture condition using different methods of testing may assist insolving such problem. In this work, macro texture and micro texture of cement concrete and asphalt concrete pavement surface have beeninvestigated in the field using four different methods (The Sand Patch Method, Outflow Time Method, British Pendulum Tester and Photogrammetry Technique). Two different grain sizes of sand have been utilized in conducting the Sand Patch, while the micro texture was investigated using the British Pendulum tester method at wet pavement surface conditions. The skid number SN was determined based on test results of the four methods. The test results were correlated to each other in terms of the skid number. It was concluded that such modeling could provide instant data in the field for pavement condition .which may help in pavement maintenance management

کلمات کلیدی:

Macro-texture, micro-texture, skid resistance, sand patch, outflow time, modelling, Pavement