

عنوان مقاله:

Investigation of Time-Temperature Superposition Validity for Bitumen

محل انتشار:

اولین همایش بین المللی قیر (سال: 1387)

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خلاصه مقاله:

Bitumen is a complex mixture of different chemicals. It is generally accepted that the principle of time-temperature superposition (TTS) holds for this material. In this study rheological measurements were carried out on four different bitumens. Different representations of experimental data were examined to check failure or holding of TTS for this complex system. Due to differences in dynamics of components, discontinuities were observed in δ versus G^* curves for all four bitumens. It was concluded that the TTS fails to be applied for the studied bitumens.

کلمات کلیدی:

bitumen, thermo-rheological behavior, dynamics, rheology, timetemperature superposition

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