Detectable Method of Damage of Single Link Rubber that Connects Bogie with Carbody by Impact Test

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Single link that is an important component of a train connects bogie with carbody and transmits acceleration and deceleration force from bogie to carbody, and it is used as a buffer of acceleration and deceleration force. Because damage of rubber potentially influences the transfer force, it needs to be detected by the regular mainte nance. However, by visual inspection of rubber, the degree of damage cannot be estimated, and an easy method to detect degree of damage is required. Therefore, in consideration of elastic mechanism of single link rubber, we confirmed that degree of damage is estimated by measurement of resonance frequency in impact test.