

in this study, a new method for assessing the fatigue crack initiation behavior of fatigue-cracked steels is proposed. the crack initiation behavior can be characterized in terms of the frequency and the number of cycles at which crack initiation takes place. fatigue crack initiation can be induced by various factors, such as the stress ratio, the number of cycles, and the initial crack size. in this study, the frequency of crack initiation was analyzed for fatigue-cracked steels that were subjected to various stress ratios. this frequency was defined as the number of crack initiation cycles divided by the total number of cycles. the crack initiation cycles at various stress ratios were determined for two different initial crack sizes (0.3 and 0.7 mm). the obtained frequencies were plotted as a function of the applied true stress ratio. the obtained results indicated that the higher the stress ratio, the greater the crack initiation frequency, and that the lower the stress ratio, the lower the crack initiation frequency. this behavior was attributed to the effect of stress concentration caused by the crack formation. the obtained results indicated that the crack initiation behavior was strongly dependent on the initial crack size, and the fatigue life decreased when the initial crack size increased. the fatigue life was also influenced by the stress ratio. the fatigue life was higher when the stress ratio was lower. a new impact test method was developed to explore the benefits of aggregate breakage for the improvement of impact toughness. the method is based on a standard notched specimen and a large mass impactor. the latter is designed to break open the notched sample on impact and to allow the crack to propagate in a ductile way in the remaining part of the notched sample. the mass impactor consists of a cylinder of lead whose breaking point is adjusted to break open the notched samples at a specific vertical speed. the height of the cylinder was changed from 20 to 80 mm to change the impact speed. the effect of aggregate breakage on fracture toughness was studied by comparing the astm e 399-90 test with the new impact test. the fracture toughness of the specimen without aggregate breakage was found to be higher than that with aggregate breakage. in addition, a new failure criterion based on the fracture toughness has been proposed. the proposed criterion can be a guidance for damage assessment and design of composite structures.

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