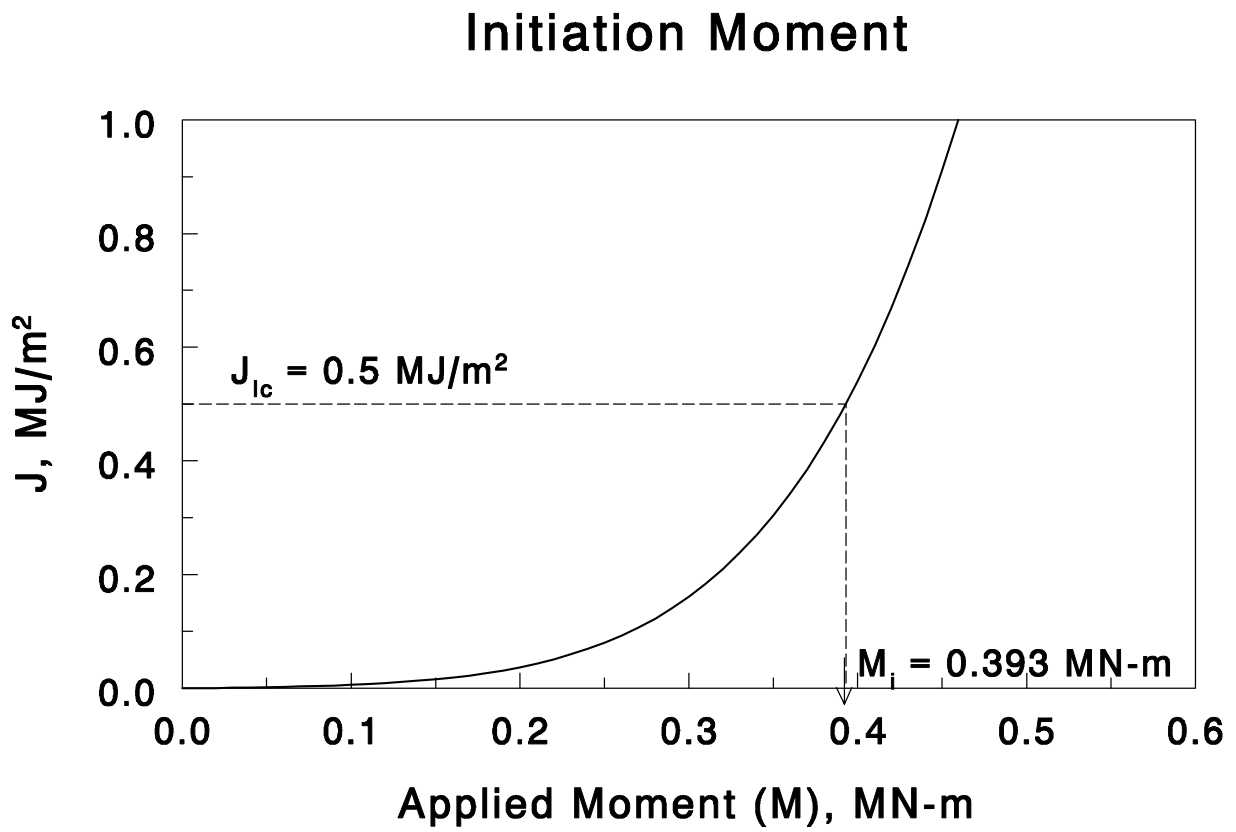


**Problem 1:**

**1. Calculation of Initiation Moment ( $M_i$ )**



$$M_i = 0.393 \text{ MN-m}$$