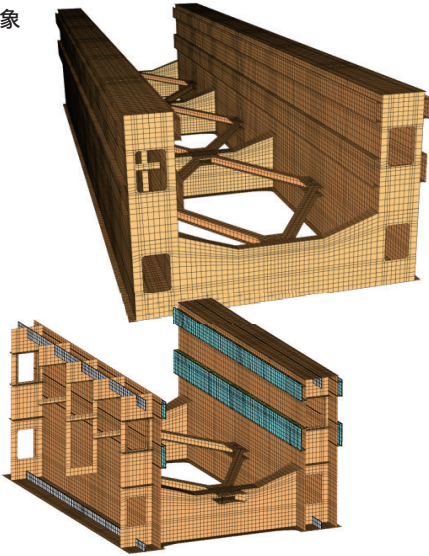


鋼製桁橋の疲労検討

モノレール軽電鉄鋼橋を対象に、部材の降伏強度より低い荷重が繰り返し作用する時、部材が疲労破壊する現象を把握、安全性を検討

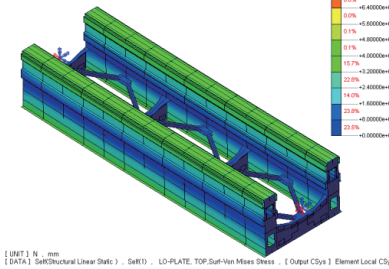
疲労破壊

解析対象

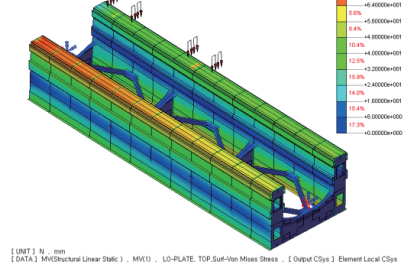


载荷条件

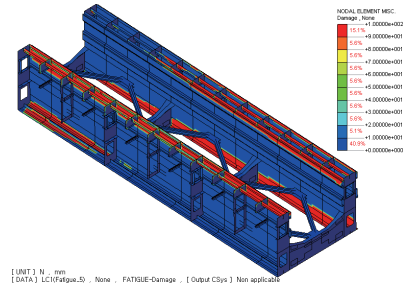
自重



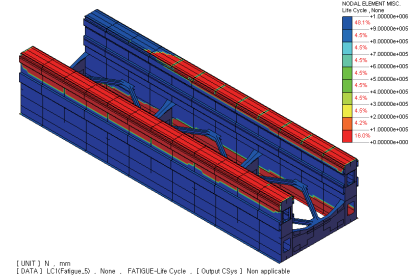
移動荷重



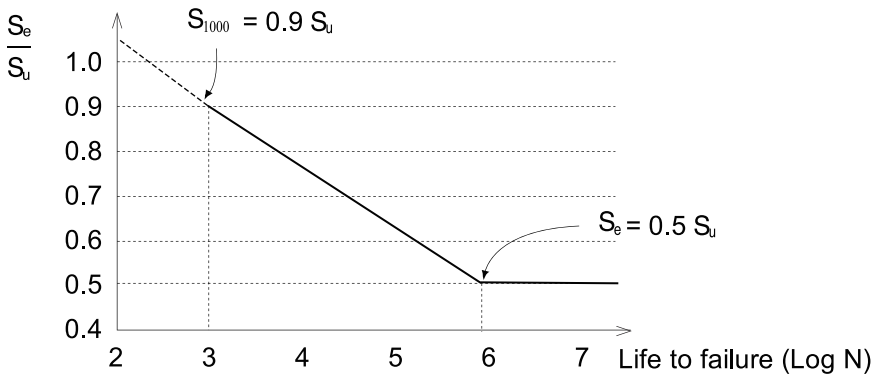
損傷



耐久寿命



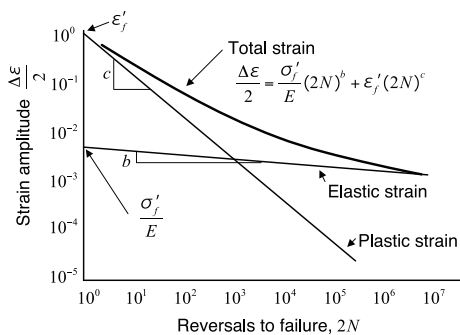
応力-寿命線図



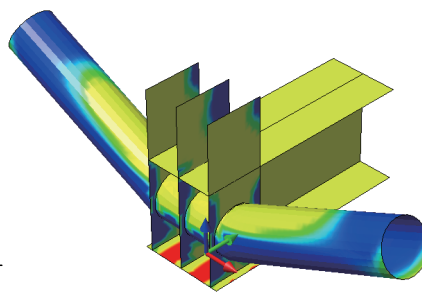
鉄骨接合部の疲労寿命予測

鉄骨接合部の局所的な塑性変形に起因する疲労寿命予測および損傷程度を把握
ひずみ-寿命法により塑性域まで含めた接合部の破損を検討

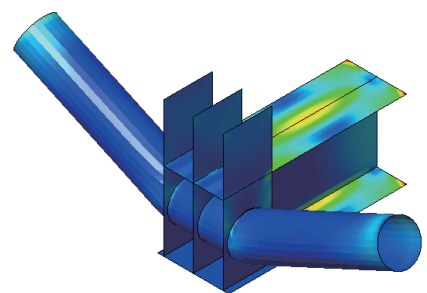
疲労破壊



ひずみ-寿命線図



Von-Mises応力



損傷度の把握