Finite-Element Analysis of Portland Cement Concrete Pavements with Cracks

JEFFERY R. ROESLER AND LEV KHAZANOVICH

It was verified that finite-element modeling could be accordally used to analyze concrete pavements with partial depth cracks. An existing finite element program, ILL1-SLAB, was modified (ILSL97) to allow for partial depth emck analysis. To model a partial depth crack, a special line spring element was added to the finite element code. The line spring elements eximic the behavior of a crack by acting as a resistorial hinge between two continuous slabs. By using available fracture machanics techniques, a relationship was derived between the amount of mamora kood transfer across a crisik and the stack depth. This anabytical solution was then used to formulate the element utilizess must a for the line spains element. The deflections produced by the new linkselement program are correct, but the stresses in the vicinity of the crack. tip meeded to be corrected to match the stress singularity zone in from of cracks. Several example problems were used to verify the proposed finite-element model, and anexample of any pical highway loading conclickers was analyzed.

Current mechanistic empirical design procedures for JPCP estimate the latigue life of securities of processing the securities of the securities. The expantions to describe the fatigue life of concrete slabs and laboratory beams to describe the fatigue life of concrete slabs and laboratory beams are empirically derived from laboratory and field performance data and do not give imight into the mechanisms of fatigue failure. For many years engineers have tried to explain the fatigue failure of concrete through damage mechanics, probability, and must recently fracture mechanisms. Experimental research has also not been able to explain why or how concrete slabs or beams fail in fatigue. However, recent experimental work at the University of Illinois indicates that stable-crack propagation-occurs in fully supported beams subjected to cyclic leading. Therefore, analysis of crack grow th in fully supported slabs may be advantageous in solving the fatigue phenomens.

To solve the problems of a partially cracked slab, fracture mechanics must be used. Practure mechanics allows for the determination of the stress and strain distribution in cracked structures. Practure mechanics not only determines the stress/strain distribution at the crack tip but also allows for the determination of the zone of influence the crack has an adjacent areas in the structure.

In recent years, fracture mechanics has been used in pavement design and analysis (J-7). In 1993, Ramsamord (S) analysed the effect of propagation of full-depth cracks from a slab's edge to the slab's interior. He developed analytical solutions for stress distributions around the crack tip when the crack tip is located mur the slab edge or is sufficiently far from it. However, Ramsamord solutions have significant limitations: the applied lend must be placed at the crack tip, no temperature leading was considered, and the crack must be sufficiently short or sufficiently long (i.e., no intermediate crack lengths).

In the fatigue analysis of BCP pavements, vertical crack propagation is more critical than horizontal crack propagation. Once the crack appears at the slab's surface, it does not take many load cycles for it to propagate horizontally across the slab's surface as seen at the AASBO Road Test (9). Therefore, analysis of partial-depth cracks is the thrust of this study.

Current finite-element programs most often used in passement analysis, such as ILLI-SLAB, J-SLAB, KIN-SLABS, FEACONS, KOLA, and WESLIQED, allow for the analysis of jointed plain concrate passements with or without dowels (10–15). Joints with aggregate interfock are considered full-depth cracks with varying degrees of shear lend transfer. With the introduction of fracture mechanics to passement design and analysis, there is a need to analyse partially cracked slabs to test and verify the behavior and sensitivity of slabs with varying degrees of vertical cracking. The finite-element method was selected as an attractive universal analytical methodolorgy. The paper presents the incorporation of a crack model into a new finite-element code, abbreviated ILSL97, representing an extension of the finite-element program ILLI-SLAB (10) and its recent modification, ILSL2 (10).

A distinguishing feature of the partial-depth crack is the presence of infinite stresses near the crack tip induced by virtually any applied load. This stress singularity at the crack tip complicates the finite-element formulation. The new limite-element code, ILSL97, calculates stress and displacement distributions in the cracked slab under traffic and environmental leading conditions. To improve the accutacy of the arralysis, the finite-element solutions are analytically extended using fracture mechanics techniques to account for the singularity in the stress liefd at the crack, tip.

THEORETICAL BACKGROUND

In an unrestrained, elastic, homogeneous, isotropic plate, there is no preferential direction of bending. The equations that govern the bunding of the plate (M_s, M_s) are the following (J7):

$$M_{\nu} = -E\left(\frac{\partial^{2}w}{\partial x^{2}} + v \frac{\partial^{2}w}{\partial y^{2}}\right)$$

 $M_{\nu} = -E\left(\frac{\partial^{2}w}{\partial y^{2}} + v \frac{\partial^{2}w}{\partial x^{2}}\right)$
(1)

where v is Poisson's ratio and D is the flex-snal nigidity of the plate defined as the following:

$$D = \frac{Eh^2}{12(1 - v^2)}$$

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