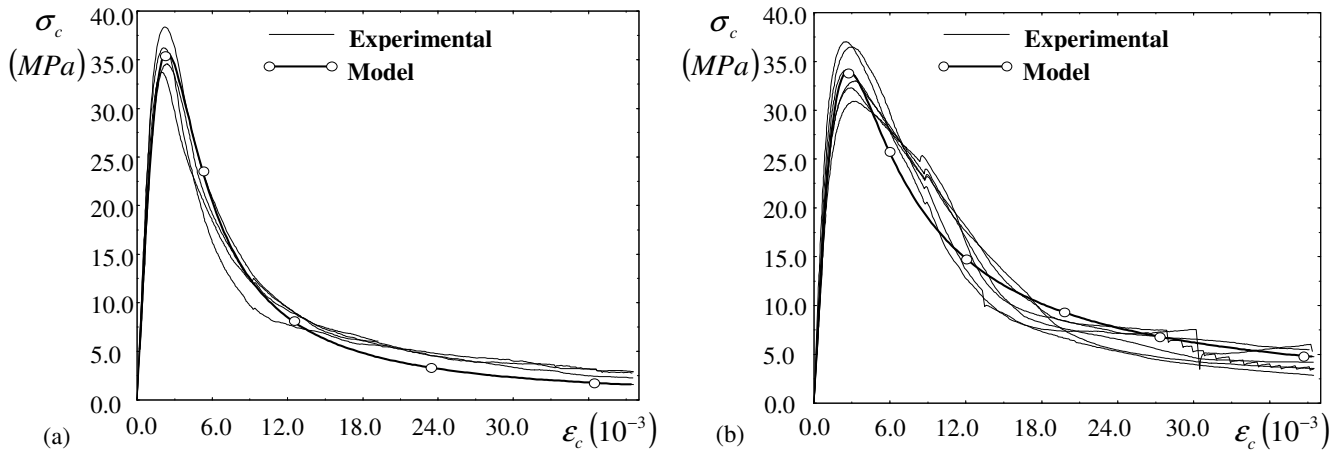

FIG. 1. Analytical versus experimental compression stress-strain curves for series *s4* with 30 kg/m^3 (a) and 60 kg/m^3 (b) of fibers

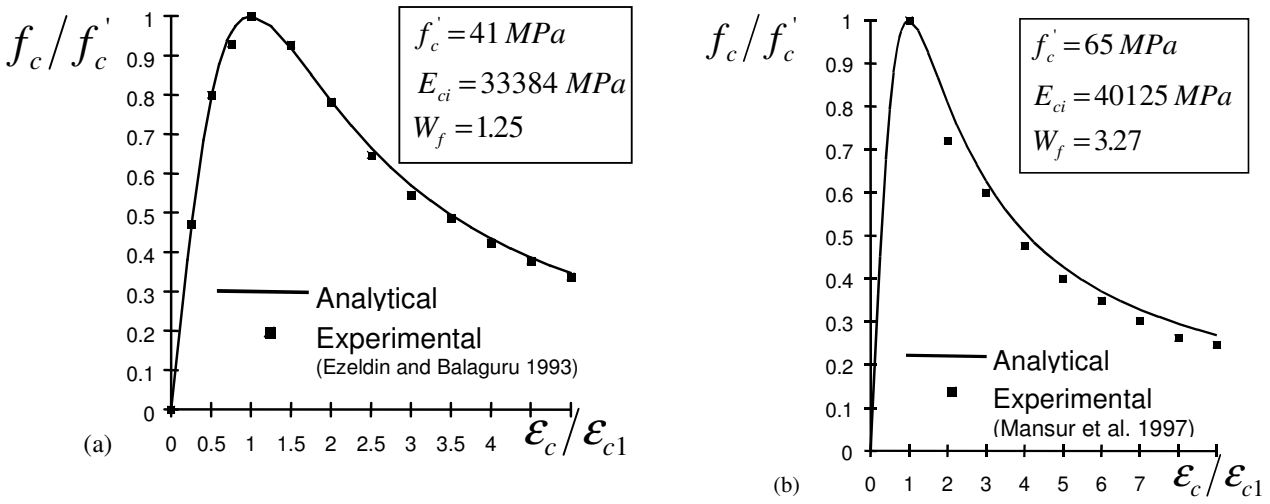

FIG. 2. Analytical versus experimental compression normalized stress-strain relationship for fibers 30/.50 and with aspect-ratio of 60

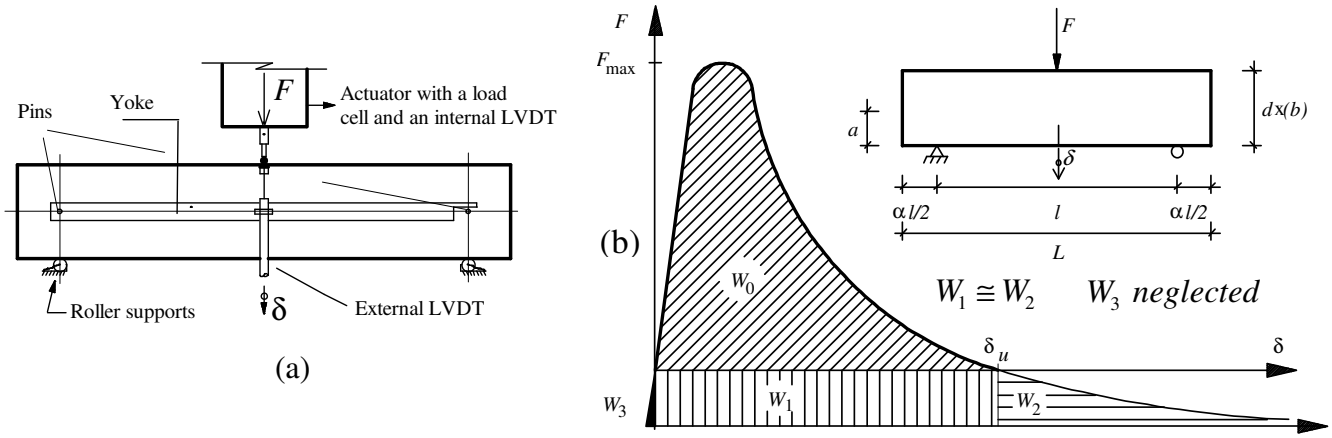

FIG. 3. Setup of flexural test on notched beam (a) and schematic representation of fracture energy evaluation (b)

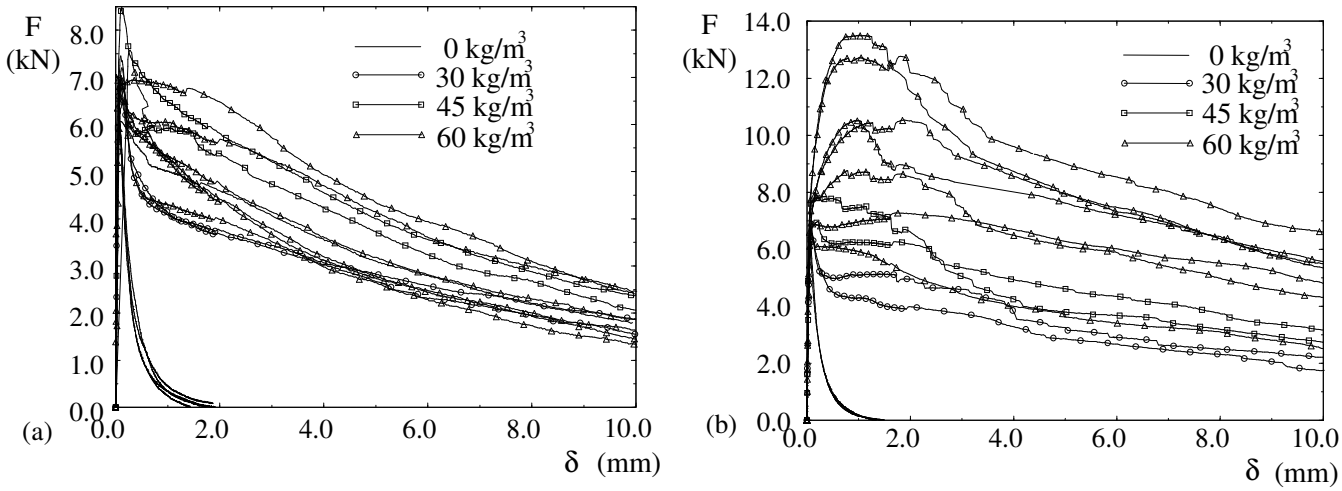

FIG. 4. Load-displacement relationship obtained in three-point bending tests of the notched beams of series *s3* (a) and *s4* (b)

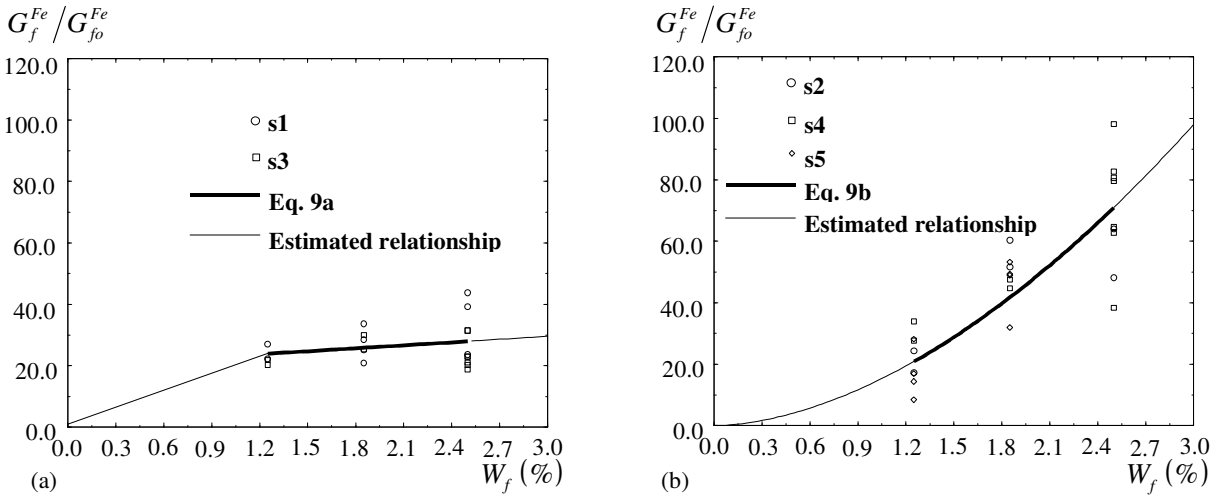

FIG. 5. $G_f^{Fe} / G_{fo}^{Fe} - W_f$ relationship for specimens reinforced with *ZP30/.50* (a) and *ZX60/.80* (b) of fibers

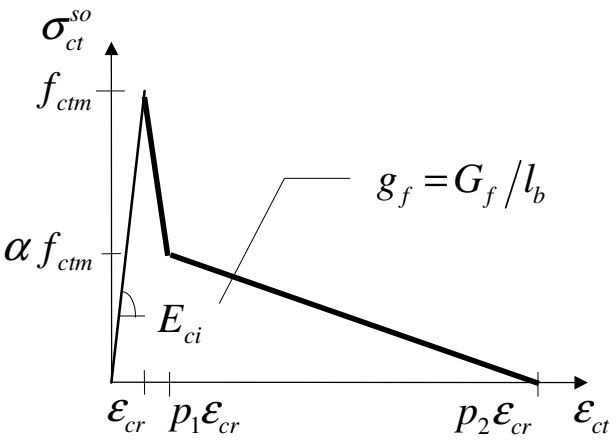

FIG. 6. Parameters used to define the tensile stress strain diagram

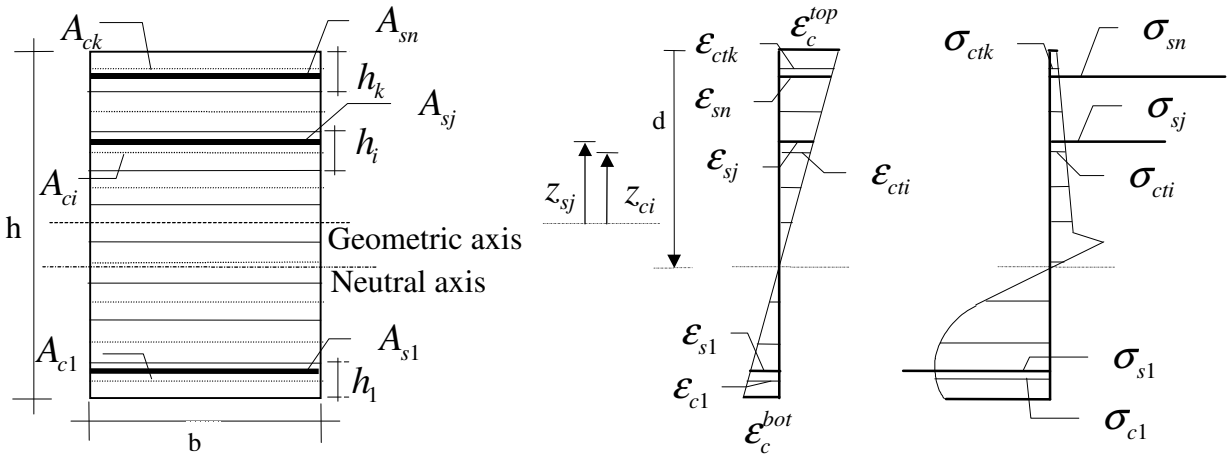

FIG. 7. Cross section discretization and assumed strain and stress diagrams

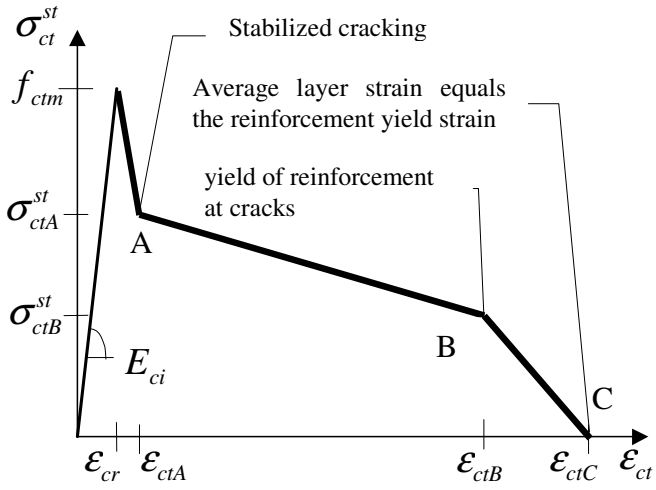

FIG. 8. Tension stiffening diagram

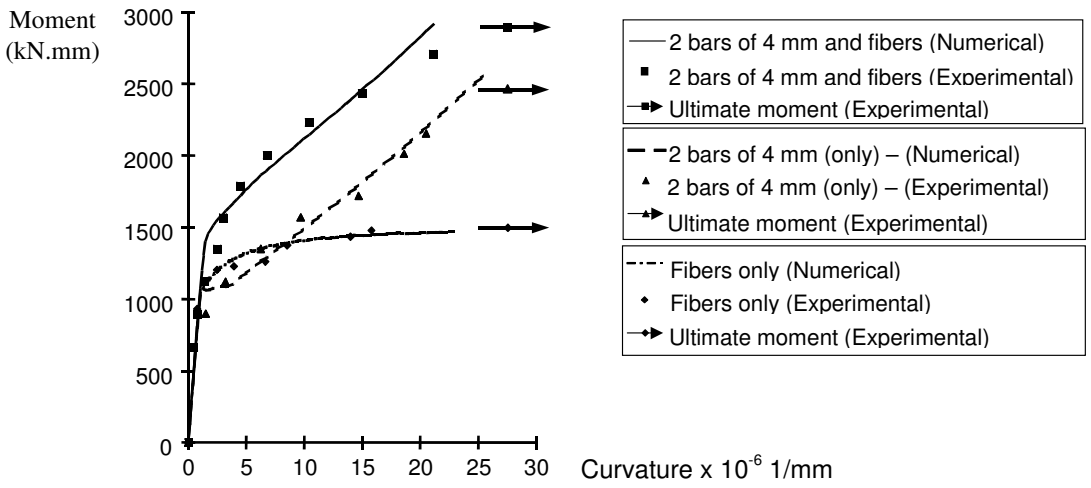

FIG. 9. Numerical versus experimental (Kormeling *et al.* 1980) moment-curvature relationship

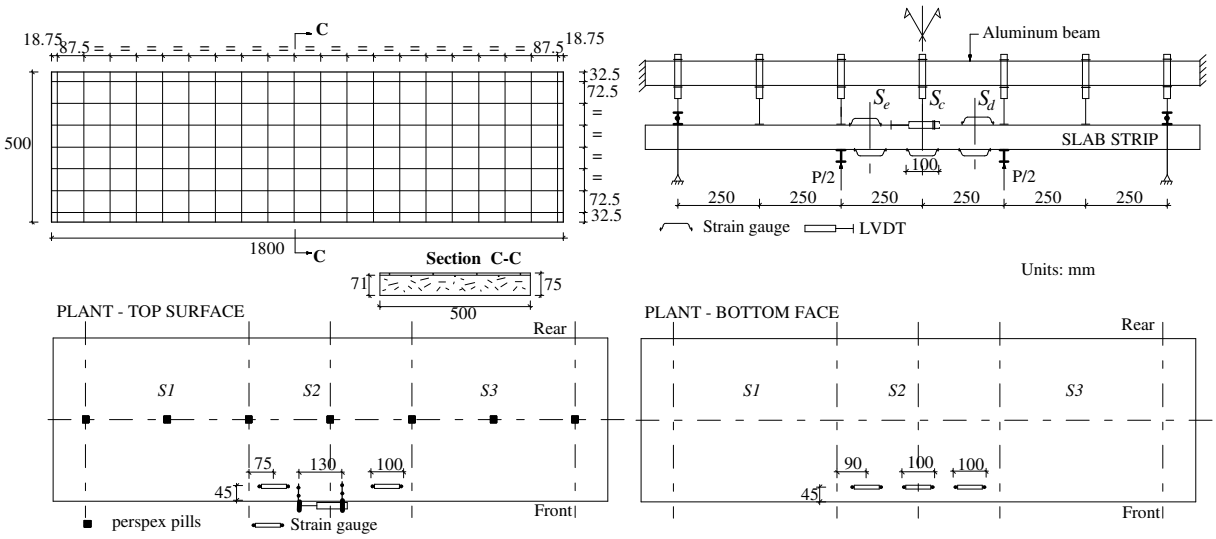

FIG. 10. Slab strip geometry, supports and load arrangement and details of instrumentation

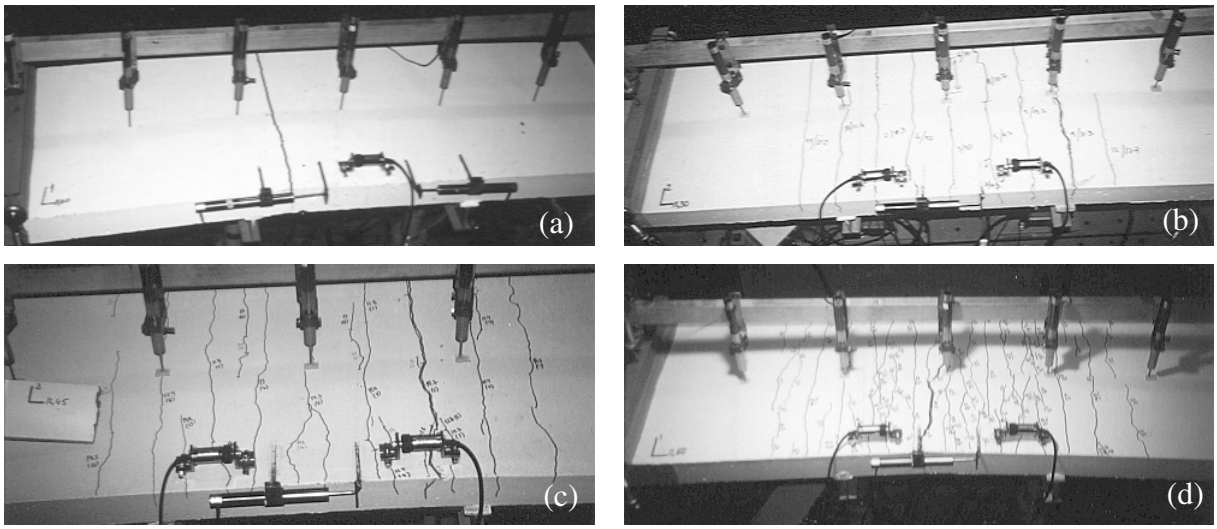

FIG. 11. Typical crack patterns of the slab strips reinforced with wire mesh and 0 (a), 30 (b), 45 (c) and 60 (d) kg/m^3 of fibers *ZX60/.80*

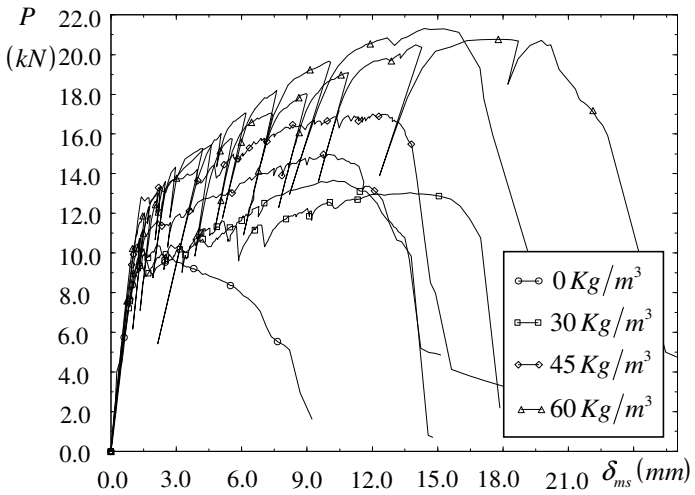

FIG. 12. Relationship between load and displacement at midspan, for the slab strips reinforced with wire mesh and different percentages of steel fibers *ZX60/.80*

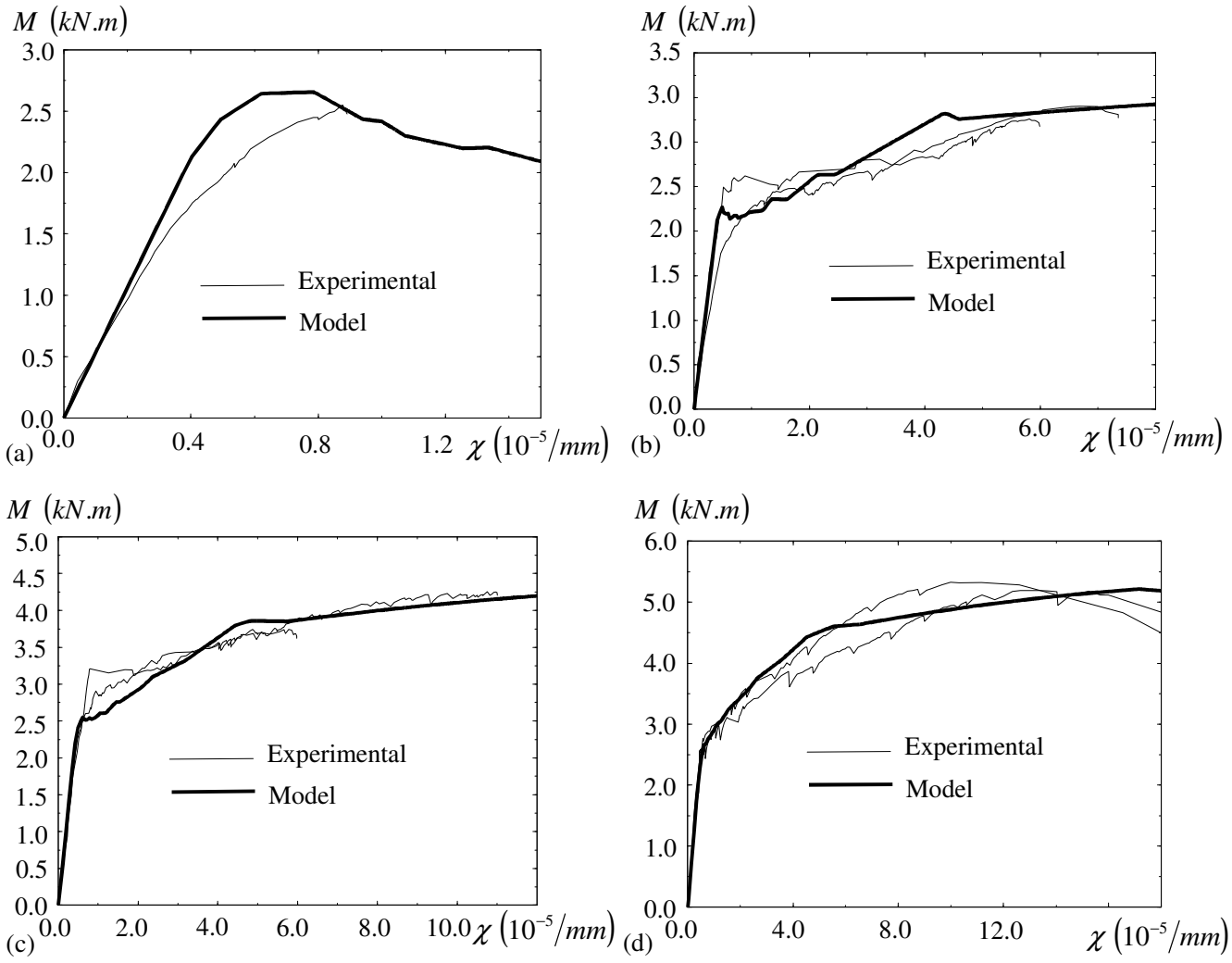

FIG. 13. Moment-curvature relationship of slab strips reinforced with 0 (a), 30 (b), 45 (c) and 60 (d) kg/m^3 of fibers.