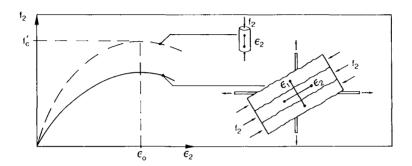
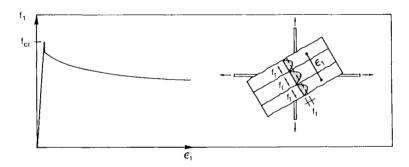


Fig. 5——Stress—strain relationships for the reinforcement



(a) Stress Strain Relationship for Cracked Concrete in Compression



(b) Average Stress Strain Relationship for Cracked Concrete in Tension Fig. 6--Stress-strain relationships for cracked concrete

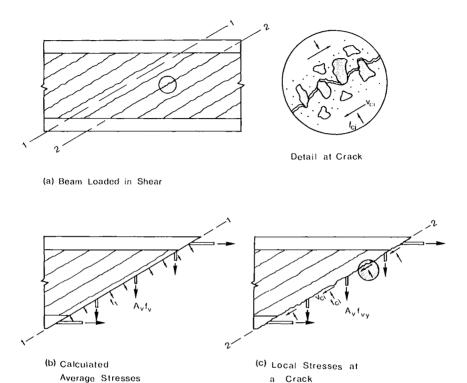


Fig. 7--Transmitting forces across cracks



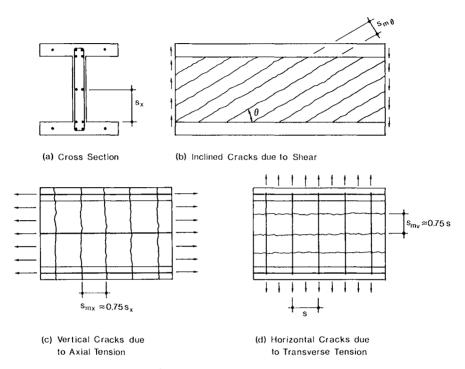


Fig. 8--Spacing of inclined cracks

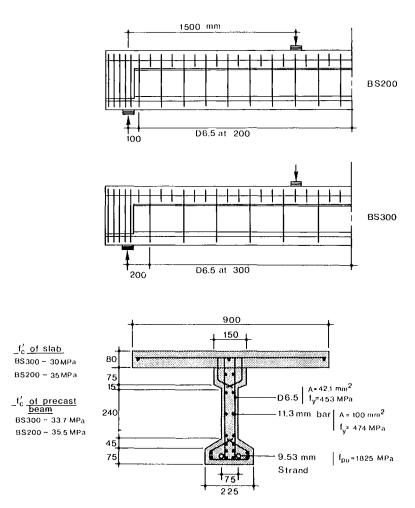


Fig. 9--Details of bridge girders tested

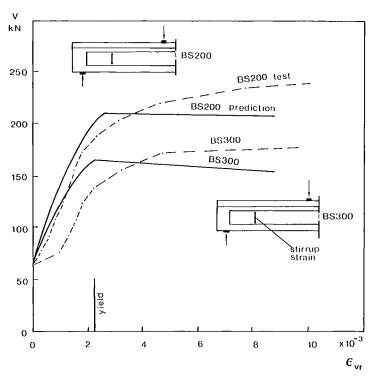
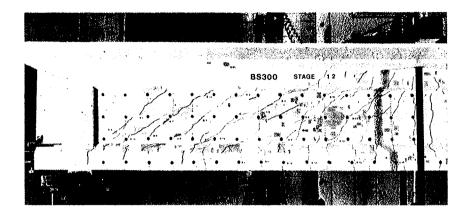


Fig. 10--Comparisons of predicted and measured stirrup straips



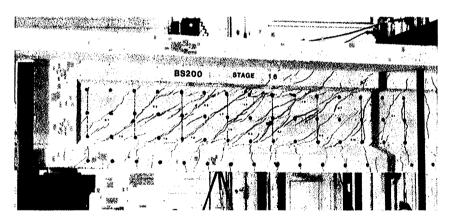


Fig. 11--Girders BS300 and BS200 at failure

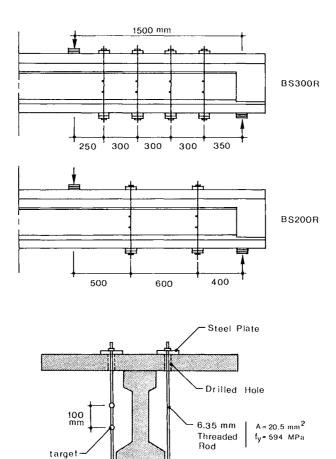


Fig. 12--Details and locations of external stirrups

Steel Plates

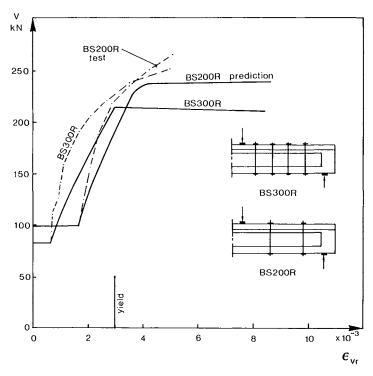
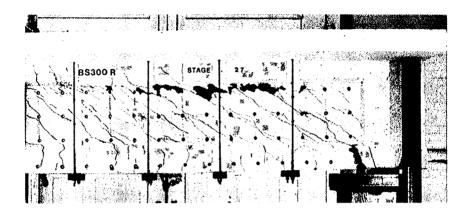


Fig. 13--Comparisons of predicted and average measured strains in external stirrups



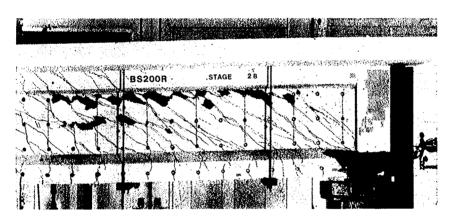


Fig. 14--Girders BS300R and BS200R at failure