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## Strengthening of Concrete Structures with Adhesive Bonded Reinforcement

By Zilch, Konrad / Niedermeier, Roland

Condition: New. Publisher/Verlag: Ernst & Sohn | Design and Dimensioning of CFRP Laminates and Steel Plates | The design and use of externally bonded CFRP strips, CF sheets and steel plates according to the German DAFStb guideline, which supplements the Eurocode. With design examples covering fatigue, creep, serviceability and ultimate limit state analysis for slabs, beams and columns. | Design and construction in existing contexts is becoming increasingly important, and often the structures - sometimes of historical interest - can be preserved easily and at minimum cost by employing strengthening measures. Existing concrete members can be strengthened by using adhesives to bond additional reinforcing elements onto or into those members. This book explains the design rules, together with their background, and uses examples to illustrate their use, specifically for slabs, beams and columns. Concrete member strengthening measures can take the form of, for example, flexural strengthening with externally bonded (surface-mounted) CFRP strips, CF sheets and steel plates, flexural strengthening with CFRP strips bonded in slits (near-surface-mounted reinforcement), shear strengthening with externally bonded CF sheets and steel plates, and column strengthening with CF sheets as confining reinforcement. The explanations and background information provided are mainly based on the new German guideline "Strengthening..."



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