

## **ΠΑΡΑΡΤΗΜΑ Α**

### **ΤΑΞΙΝΟΜΗΣΗ ΒΙΒΛΙΟΓΡΑΦΙΑΣ**

**Ταξινόμηση εργασιών (μέχρι τις αρχές του 2002, οπότε έληξε η σχετική εργασία του προγράμματος) σχετικών με την εφαρμογή των συνθέτων υλικών στο πεδίο των ενισχύσεων κατασκευών οπλισμένου σκυροδέματος.**

## Ενίσχυση σε κάμψη - γενικά

Οι παρακάτω εργασίες αναφέρονται κυρίως σε μονοτονική βραχυχρόνια συμπεριφορά, με έμφαση σε μηχανισμούς αστοχίας, σε υπολογισμούς καμπτικής αντοχής και στη μελέτη αποκολλήσεων.

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### **Ενίσχυση σε κάμψη - ερπυσμός**

Στις παρακάτω εργασίες μελετάται η επίδραση του ερπυσμού στις περιπτώσεις καμπτικών ενισχύσεων.

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### **Ενίσχυση σε κάμψη – προεντεταμένα στοιχεία**

Οι παρακάτω εργασίες αναφέρονται στη συμπεριφορά προεντεταμένων στοιχείων με καμπτική ενίσχυση.

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### **Ενίσχυση σε κάμψη – κόπωση**

*Το φαινόμενο της κόπωσης σε καμπτικώς ενισχυμένα στοιχεία αποτελεί το θέμα των παρακάτω εργασιών.*

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### **Ενίσχυση (καμπτικού τύπου στοιχείων) σε διάτμηση**

*Οι παρακάτω εργασίες εστιάζονται σε διατμητικές ενισχύσεις. Καλύπτουν θέματα μηχανικής συμπεριφοράς και υπολογισμού της συνεισφοράς των συνθέτων υλικών στην ανάληψη τέμνουσας δύναμης.*

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## **Ενίσχυση με προεντεταμένα σύνθετα υλικά**

*Καμπτικού και διατμητικού τύπου ενισχύσεις μέσω προεντεταμένων συνθέτων υλικών καλύπτονται στις ακόλουθες εργασίες. Κύρια έμφαση δίνεται στην αναγνώριση των μηχανισμών αστοχίας και στον υπολογισμό των αντιστοίχων φορτίων.*

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El-Hacha, R., Green, M. and Wight, G. (2000), Retrofitting of severely damaged concrete beams using prestressed CFRP sheets. *Advanced Composite Materials in Bridges and*

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## **Ενίσχυση τοιχωμάτων**

*Καλύπτονται μόνο οι περιπτώσεις τοιχωμάτων με περυγότοιχους.*

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Lombard, J. C., Lau, D. T., Humar, J. L., Cheung, M. S. and Foo, S. (2000), Seismic repair and strengthening of reinforced concrete shear walls for flexure and shear using carbon fibre sheets. *Advanced Composite Materials in Bridges and Structures*. Montreal, The Canadian Society for Civil Engineering, Eds. J. Humar and A. G. Razaqpur, 645-652.

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## Αναλυτικά προσομοιώματα εγκιβωτισμού σκυροδέματος με σύνθετα υλικά

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Hosotani, M., Kawashima, K. and Hoshikuma, J. (1997), A study on confinement effect of concrete cylinders by carbon fiber sheets. *Non-Metallic (FRP) Reinforcement for Concrete Structures* (Vol 1), Japan Concrete Institute, 209-216.

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## Βελτίωση της συμπεριφοράς πλαστικών αρθρώσεων (αύξηση πλαστιμότητας)

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Priestley, M. J. N. and Seible, F. (1995), Design of seismic retrofit measures for concrete and masonry structures. *Construction and Building Materials*, 9(6), 365-377.

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