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NOVE KNJIGE

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Taško Maneski - REŠENI PROBLEMI ČVRSTOĆE KONSTRUKCIJA

Ova knjiga je namenjena pre svega inženjerima koji se bave proračunima i projektovanjem nosećih konstrukcija u mašinstvu sa mogućom primenom i u drugim oblastima tehnike, kao što je npr. građevinarstvo. Osnovu teksta čine rešeni problemi čvrstoće primenom numeričke metode konačnih elemenata (MKE). Razmatrani su jedno-, dvo- i tro-dimenzioni problemi. Teorijska osnova rešavanih problema predstavljena je kroz poglavlja koja opisuju kompjutersko modeliranje i proračun konstrukcija KOMIPS i definisanja dijagnostike ponašanja konstrukcije. Dati su rešeni problemi u oblastima: rotorni bageri, rotacione peći i mlinovi, železnička vozila, motorna vozila, deo energetske i procesne opreme, mehanizacija, parni kotlovi, mašine i alati, centrifugalne sile, rezervoari i posude, brodogradnja, žičare.

66 strana, Izdavač: Mašinski fakultet, Beograd 2002

Taško Maneski, Vesna Milošević-Mitić, Davor Ostrić - POSTAVKE ČVRSTOĆE KONSTRUKCIJA

Ova publikacija je namenjena održavanju vežbi u školi konačnih elemenata "KOMIPS" koja se permanentno održava na Mašinskom fakultetu Univerziteta u Beogradu na Katedri za Otpornost konstrukcija. Prikazani su primeri i problema koji su rešavani paralelno teorijski i numerički primenom metode konačnih elemenata. Razmatrani su jedno-, dvo- i tro-dimenzioni problemi. Primeri, pored navedenog, imaju za cilj da se ovlada programom KOMIPS, da se počne verovati metodi konačnih elemenata i modeliranju, da se definišu osnovne postavke raspodele opterećenja po konstrukciji. Postavke čvrstoće konstrukcija su prikazane kroz teorijske formule, kompjuterske primere i tehničke rezone. Izvodi iz teorije elastičnosti prikazani su u najkraće mogućem obliku. Dodatak ovom rukopisu predstavlja prikaz rešenih realnih problema u protekle tri godine.

106 strana, Izdavač: Mašinski fakultet, Beograd 2002

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