

Postupci ispitivanja bez razaranja pri procjeni strukturnog integriteta

Non-destructive testing procedures for assessment of structural integrity

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Apstrakt

Navedene su standardne metode ispitivanja bez razaranja koje se koriste za detekciju nesavršenosti u polaznom materijalu, pri izradi proizvoda, gradnji postrojenja i održavanju komponenti i postrojenja u radnom stanju.

Naznačene su promene u primeni ovih metoda nastale kao posledica razvoja elektronike, informatike i tehnologije materijala. Posebno su akcentirane normativne izmene u izvođenju IBR metoda i statusu čitave ove oblasti, koje započinju pre petnaestak godina, a ozakonjene su direktivom za opremu pod pritiskom.

Dati su primeri nalaza ispitivanja bez razaranja detektovani u toku remonta termoenergetskih postrojenja.

Summary

There have been given non-destructive testing methods to be used in detection of imperfections in raw material, when manufacturing products, constructing plants and maintaining components and plants in working condition.

There have also been pointed out modifications in applying the methods, resulted from development of electronics, informatics and material technology. A special accent has been put on normative changes of status of the field as a whole and carrying out of NDT methods as well, initiated 15 years ago and legalized by the pressure equipment directive.

The examples of non-destructive testing results detected in repair of the thermal power plants have also been provided.