

Project ON 144002 -Theoretical and Applied Mechanics of the Rigid and Solid Bodies. Mechanics of Materials (2006-2010)

Projekt ON144002 Teorijska i primenjena mehanika krutih i čvrstih tela. Mehanika materijala.

Support: Ministry of Sciences and Environmental Protection of Republic of Serbia

Institution Coordinator: Mathematical Institute Serbian Academy of Sciences and Arts.

Project Leader: Katica (Stevanović) Hedrih

Researchers: 38.

Researcher months: approximately 136 months. (by contract)

Report – Research Results in 2008.

Istraživački rezultati u 2008.

I. Radovi u časopisima sa visokim impact faktorom - Publikovani

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Julka Knežević-Mil]nović: Ravnomernwe ocenki re[enij diferencialxnih neravenstv, Trudi seminara imeni I.G.Perovskogo, 26, 2008, 29-34. ISSN 0321-2971 **R52**

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II. Radovi u časopisima sa visokim impact faktorom - u štampi

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IV. Poglavlja u monografijama međunarodnog značaja

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V. Monografije nacionalnog značaja:

Debeljkovic, Lj. D., G. V. Simeunovic, **Analysis and Synthesis of Multivariable Control Systems using Root Locus Method**, Faculty of Mechanical Engineering, Belgrade, 2008 (*in Serbian*), pp. 448.

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Pjescic, R M., V. Chistyakov, D. Lj. Debeljkovic, **On Dynamical Analysis of Particular Class of Linear Singular Time Delayed Systems: Stability and Robustness**, Faculty of Mechanical Engineering, Belgrade, 2008 (*in Serbian*), pp. 445.

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VI. Doktorske magistarske disertacije

VI.1. Oblast Teorijska i primenjena mehanika

Simonovic J., (2008), *Dinamika mehaničkih sistema složenih struktura*, magistarski rad odbranjen 8 maj 2008. Masinski fakultet u Nisu, str. 249. Mentor Katica (Stevanovic) Hedrih.

VI.2. Oblast konstruisanje i otpornost konstrukcija

1. Mr Dejan Dimitrijević: "ДИНАМИЧКИ МОДЕЛИ НАПОНСКОГ И ДЕФОРМАЦИОНОГ СТАЊА ЕЛЕМЕНАТА ЗУПЧАСТИХ ПРЕНОШНИКА" mentor Vera Nikolić. Odbranjena maja 2008.
2. Mr Zorica Đorđević: "ДИНАМИЧКО ПОНАШАЊЕ ВРАТИЛА ОД КОМПОЗИТНИХ МАТЕРИЈАЛА", mentor Vera Nikolić. Odbranjena 11.10. 2008.
3. Mr Mirko Blagojević: "НАПОНСКО И ДЕФОРМАЦИОНО СТАЊЕ ЕЛЕМЕНАТА ЦИКЛОРЕДУКТОРА ПРИ ДИНАМИЧКИМ ОПТЕРЕЋЕЊИМА" mentor Vera Nikolić. Odbranjena 31.10 2008.
4. Mr Mladen Radojković: "НАПОНСКО ДЕФОРМАЦИОНО СТАЊЕ У ЗОНАМА ГЕОМЕТРИЈСКИХ ДИСКОНТИНУИТЕТА ЕЛЕМЕНАТА МАШИНСКИХ КОНСТРУКЦИЈА", mentor Vera Nikolić. Odbranjena 25. 10 2008.
5. Mr Vesna Marjanović: ANALIZA DINAMIČKOG PONAŠANJA ROTORA SA POPREČNOM PRSLINOM", mentor Ružica Nikolić, Odbranjena 27.10.2008.

VII. Publikovana predavanja, predavanja po pozivu, kao i saopštenja na medjunarodnim skupovima u u 2008.

U okviru IUTAM ICTAM Adelaide 2008, Katica R. (Stevanović) Hedrih održala je "Session Lecture" u okviru sekcije Oscilacije struktura - **SM19 :: Structural vibrations**, kojom su predsedavali Co-chairs: *Marian Wiercigroch* (UK) and *Pedro Ribeiro* (Portugal).
Najiv mog predavanja je:

Katica R. (Stevanović) Hedrih (August 29, 2008, Fri 11:20.B)

Phenomenological mapping method and mathematical analogy of hybrid system dynamics, XXII International Congress of Theoretical and Applied Mechanics Abstracts Book, Edited by J. Dernier, M.D. Fim and T. Mattner, Adelaide 2008, p. 317, ISSN 978-0-9805142-0-9, p. 317, and CD-ROM ISSN 978-0-9805142-1-6, pp. 10135, 1-2.. (vidi WEB ictam2008.adelaide.edu.au).

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