TEME DE CERCETARE PROPUSE
IN DOMENIUL DE DOCTORAT INGINERIE MECANICA, 2026

Conducător	Tema	Bibliografie
Prof. univ. habil. dr. ing. Răzvan George Rîpeanu	Cercetări privind influența proprietăților de suprafață și de volum asupra comportării tribologice ale echipamentelor dinamice industriale	1. Rîpeanu, R.G., Tudor, I., Zecheru, Gh., Trifan, C., Drumeanu, A.C., Dinita, A., *Ingineria Coroziunii şi Managementul Riscului Reţelelor Metalice de Distribuţie a Gazelor Naturale*, Editura KARTA-GRAPHIC Ploieşti, 2013; 2. Pavelescu, D., *Tribologie*, Ed. Didactică şi Pedagopgică, Bucureşti, 1977 3. Tudor, I., *Tribologie*, Editura Univ. din Ploieşti, 2001 4. Gross, W, *Fluid film lubrification*, Ed. J. Willey, New York, 1980; 5. Rîpeanu, R.G., *Tribocoroziunea pompelor de extracţie*, Editura Universităţii din Ploieşti, Ploiesti, 2005; 6. Noël Brunetière, *Introduction à la Tribologie*, Institut Pprime – Futuroscope, 2016; 7. B. Bhushan, *Modern Tribology Handbook*, vol1 and 2, CRC Press Boca Raton, Florida, 2001; 8. Crudu, I., *Fiabilitatea şi calitatea sistemelor mecanice*, Editura S.C. F&F International S.R.L., Gheorgheni, 2003; 9. Heidersbach, R., *Metallurgy and corrosion control in oil and gas production*, Wiley, 2011 10. www.fluidmech.net/tutorials/trib/trib.htm 11. https://ocw.mit.edu/courses/mechanical-engineering/2-800-tribology-fall-2004/lecture-notes/
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<tr><td rowspan="2">Prof. univ. habil. dr. ing. Marius Gabriel Petrescu</td><td>Cercetări privind fenomenul de fisurare prin coroziune sub tensiune a conductelor</td><td rowspan="2">1. Y. Frank Cheng, Stress Corrosion Cracking of Pipelines, John Wiley & Sons, Inc., 2013
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