

LISTA DE LUCRĂRI

A. Teza de doctorat

Cercetari teoretice si experimentale privind fenomenul de revenire elastică la ambutisarea pieselor cilindrice, Coordonator științific: Prof. univ. dr. ing. Constantin ISPAS, Universitatea „Politehnica” Bucuresti, 2006 – domeniul Inginerie Industrială.

B. Cărți/manuale/ monografii/ capitole în cărți de specialitate

B1. Cărți și capitole în cărți

1. Chirita B.A., Herghelegiu E., **Radu M.C.**, Tampu N.C., *Study of quality parameters for abrasive water jet cutting of metals*. In Carou, D., Davim, J.P. (eds.) Notes for Manufacturing Instructors. Materials Forming, Machining and Tribology, Springer, Cham., 2024, Print ISBN: 978-3-031-48467-4, Online ISBN: 978-3-031-48468-1
2. **Crina Radu**, Eugen Herghelegiu, Catalin Tampu, Tilemachos Koliopoulos, *Incremental sheet forming - an emerging technology with a broad applicability*, In: Emerging Environmental Technologies and Health Protection (cap. 9), Ed. Telegeco Research Center, Atena, Grecia, 2018, ISSN 2623-4874, e-ISSN 2623-4882
3. Tilemachos K. Koliopoulos, Vicky Katsoni, **Crina Radu**, *Information tools for health tourism's sustainability and safe mobility*, In: Emerging Environmental Technologies and Health Protection (cap.10), Ed. Telegeco Research Center, Atena, Grecia, 2018, ISSN 2623-4874, e-ISSN 2623-4882
4. **Radu Maria Crina**, Schnakovszky Carol, Herghelegiu Eugen, *Aspecte privind deformarea plastică incrementală în punct a tablelor metalice*, Ed. Alma Mater, Bacău 2021, ISBN 978-606-527-679-6
5. Cristea Ion., Tâmpu Nicolae Cătălin, **Radu Maria Crina**, *Toleranțe și control dimensional*, Ed. Alma Mater, Bacău 2020, ISBN 978-606-527-640-6
6. **Crina Radu**, Ion Cristea, Eugen Herghelegiu, Cătălin Tâmpu, *Sisteme de management al calității. Cerințe. Audit*, Ed. Alma Mater, Bacău 2015, ISBN 978-606-527-483-9
7. Paralika M., Bolos C., Birsan A., **Axinte C.**, Dobre, B., Saulescu R., *Ecodesign for sustainable development. Product recycling technologies*, Ed. Universității Transilvania Brașov, 2007, ISBN 978-973-598 -103-7; 878-973-598-106-8
8. Brabie Ghe., Schnakovszky C., Chiriță B., **Axinte C.**, Chirilă C., *Deformarea la rece a tablelor metalice. Fenomene de instabilitate a formei și dimensiunilor piesei*, Ed. Junimea, 2005, ISBN 973-37-1098-9
9. Brabie Ghe., Schnakovszky C., Chiriță B., Chirilă C., **Axinte C.**, *Tensiuni reziduale generate de procesele de transformare a materialelor metalice*, Ed. Junimea, 2005, ISBN 973-37-1097-0

B2. Manuale didactice

1. Cristea Ion, **Radu Maria Crina**, *Managementul calității. Note de curs și aplicații*, Ed. Alma Mater, Bacău 2014, ISBN 978-606-527-428-0
2. Cristea Ion, **Radu Crina**, Tâmpu Cătălin, *Control statistic. Note de curs și aplicații*, Ed. Alma Mater, Bacău 2012, ISBN 978-606-527-210-1

3. **Axinte Crina**, Cristea Ion, *Eco-design. Note de curs și aplicații*, Ed. Alma Mater, Bacău 2010, ISBN 978-606-527-087-9
4. **Axinte Crina**, Cristea Ion, Gherghel Mihai, *Dimensiuni, proporții, armonii și culori. Note de curs și aplicații*, Editura Alma Mater, Bacău 2010, ISBN 978-606-527-088-6
5. **Axinte Crina**, Cristea Ion, *Design de produs. Note de curs și aplicații*, Ed. Alma Mater, Bacău 2010, ISBN 978-606-527-089-3
6. **Axinte Crina**, Cristea Ion, *Elemente de design industrial. Note de curs și aplicații*, Editura Alma Mater Bacău 2007, ISBN 978-973-1833-39-2
7. Bradea Lucia, **Axinte Crina**, *Planificarea și auditul calității. Curs*, Ed. Alma Mater Bacău 2007, ISBN 978-973-1833-42-2

B3. Îndrumare de laborator

1. **Radu Crina**, Herghelegiu Eugen, *Elemente de design. Bazele proiectării cu Solid Edge. Îndrumar de laborator*, Ed. Alma Mater, Bacău 2016, ISBN 978-606-527-482-2
2. **Radu Crina**, Herghelegiu Eugen, Cristea Ion, *Prelucrări prin deformare plastică la rece. Îndrumar pentru lucrări practice*, Ed. Alma Mater, Bacău 2015, ISBN 978-973-8392-99-1
3. Cristea Ion, **Axinte Crina**, *Tolerante și control dimensional. Îndrumar de laborator*, Editura Alma Mater, Bacău 2007, ISBN 978-973-1833-41-5
4. Cristea Ion, **Axinte Crina**, *Ingineria și managementul calității. Îndrumar de laborator*, Editura Alma Mater, Bacău 2007, ISBN 978-973-1833-40-8
5. Cristea I., Gherghel M., **Axinte C.**, Pavel V., *Studiul construcției și geometriei sculelor așchietoare. Lucrări practice*, Ed. Tehnica-Info, Chișinău 2003, ISBN 9975-63-172-4
6. Cristea I., Gherghel M., Pavel V., **Axinte C.**, *Tehnici de laborator pentru studiul fenomenelor caracteristice așchierii metalelor*, Ed. Tehnica-Info, Chișinău 2003, ISBN 9975-63-172-2

C. Articole indexate în reviste ISI Thomson Reuters și în volumele unor manifestări științifice indexate ISI Thomson Reuters, vizibile în baza de date

1. O.Ghiorghe, C.Schnakovszky, E.Herghelegiu, **M.C. Radu**, B.A. Chirita, N.C. Tampu, B.Nita, P.Radu, *Influence of the electrode material on electrical discharge machining process performance*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, ISSN 1582-540X, 2024, 25 (1), pp. 71 – 90, **WOS**: 001196254200005.
2. V.A. Ciubotariu, **M.C. Radu**, E. Herghelegiu, V. Zichil, C.C. Grigoras, E. Nechita, *Structural and behaviour optimization of tubular structures made of tailorwelded blanks by applying Taguchi and genetic algorithms methods*, Applied Sciences-Basel, 2022, vol. 12, nr. 13, 6794, **DOI**:[10.3390/app12136794](https://doi.org/10.3390/app12136794), **WOS**:000825558800001, **Jurnal în zona Q2, categoria Web of Science: ENGINEERING, MULTIDISCIPLINARY – SCIE**
3. **Radu M.C.**, Schnakovszky C., Herghelegiu E., Ciubotariu V.A., Cristea I., *The impact of the COVID-19 pandemic on the quality of educational process: A Student Survey*, International Journal of Environmental Research and Public Health, ISSN 1661-7827, 2020, vol. 17, 7770, **DOI**: [10.3390/ijerph17217770](https://doi.org/10.3390/ijerph17217770), **WOS**:000588980300001, **Jurnal în zona 1, categoria Web of Science: PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH**
4. **Radu M.C.**, Tampu R., Nedeff V., Patriciu O.I., Schnakovszky C., Herghelegiu E.,

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5. Radu M.C., Bucuroiu R., Grosu L., *Improvements of the food safety management system brought by the ISO 22000:2018 with applicability to the canteen of the "Vasile Alecsandri" University of Bacau*, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, ISSN 1582-540X, 2020, vol. 21, no. 2, pp: 289-312, WOS:000546789300014
 6. Herghelegiu E., Radu M.C., Schnakovszky C., Chirita B.A., Tampu N.C., *Study on the influence of the working regime on the quality of cut in the case waterjet processing of S 235 steel*, Modern Technologies in Industrial Engineering VII (MODTECH 2019), IOP Conf. Series: Materials Science and Engineering; ISSN 1757-8981, 2019, vol. 591, 012019, DOI:10.1088/1757-899X/591/1/012019, WOS:000562929900019
 7. Schnakovszky C., Herghelegiu E., Radu M.C., Chirita B.A., Tâmpu N.C., *Optimization of working parameters in case of aluminium alloy abrasive water jet cutting (AWJC)*, Modern Technologies in Industrial Engineering VI (MODTECH 2018), IOP Conference Series-Materials Science and Engineering, ISSN 1757-8981, 2018, vol. 400, 022052, DOI: 10.1088/1757-899X/400/2/022052, WOS:000461147400052
 8. Herghelegiu E., Schnakovszky C., Radu M. C., Tampu N.C., Zichi V., *Comparative study on the processing of armour steels with various unconventional technologies*, Modern Technologies in Industrial Engineering V, IOP Conference Series-Materials Science and Engineering, ISSN 1757-8981, 2017, vol. 227, 012058, DOI: 10.1088/1757-899X/227/1/012058, WOS:000409221600058
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 10. Radu M.C., Schnakovszky C., Herghelegiu E., Tampu N.C., Zichil V., *Comparative analysis of the processing accuracy of high strength metal sheets by AWJ, laser and plasma*, Modtech International Conference - Modern Technologies in Industrial Engineering IV, PTS 1-7, IOP Conference Series-Materials Science and Engineering, ISSN 1757-8981, 2016, vol. 145, 022034, DOI: 10.1088/1757-899X/145/2/022034, WOS:000396437600034
 11. Chirita B., Tampu N.C., Brabie G., Radu M.C., *Experimental investigation on the effects of cooling system on surface quality in high speed milling of an aluminium alloy*, Modtech International Conference - Modern Technologies in Industrial Engineering IV, PTS 1-7, IOP Conference Series-Materials Science and Engineering, ISSN 1757-8981, 2016, vol. 145, 022006, DOI: 10.1088/1757-899X/145/2/022006, WOS:000396437600006
 12. Zichil V., Coseru A., Schnakovszky C., Herghelegiu E., Radu C., *Shock imprint and rolling direction influence upon the breaking tenacity for 2P armor steel*, Modtech International Conference - Modern Technologies in Industrial Engineering IV, PTS 1-7, IOP Conference Series-Materials Science and Engineering, ISSN 1757-8981, 2016, vol. 145, 032011, DOI: 10.1088/1757-899X/145/3/032011, WOS:000396437600051
 13. Radu M.C., Cristea I., *Processing metal sheets by SPIF and analysis of parts quality*, Materials and Manufacturing Processes, ISSN 1042-6914, 2013, vol. 28, no. 3, pp. 287–293, DOI:10.1080/10426914.2012.746702, WOS:000316073400011, Jurnal în zona 2,

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14. **Radu C.**, Tampu C., Cristea I., Chirita B., *The effect of residual stresses on the accuracy of parts processed by SPIF*, Materials and Manufacturing Processes, ISSN 1042-6914, 2013, vol. 28, no. 5, pp. 572-576, DOI: [10.1080/10426914.2013.763967](https://doi.org/10.1080/10426914.2013.763967), WOS:000318346700013, **Jurnal în zona 2, categoria Web of Science: ENGINEERING, MANUFACTURING**
15. **Radu C.**, Herghelegiu E., Schnakovszky C., *Comparative study on the effects of three unconventional cutting technologies on cut surface quality*, Indian Journal of Engineering & Materials Sciences, ISSN 0971-4588, 2015, vol. 22, no. 2, pp. 127-132, WOS: 000358813600001
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17. Tâmpu N.C, Brabie G., Chirita B.A., Herghelegiu E., **Radu M.C.**, *Influence of the cooling liquid on surface quality characteristics in milling*, Modern Technologies in Industrial Engineering (MODTECH2015), IOP Conference Series - Materials Science and Engineering, ISSN 1757-8981, 2015, Vol. 95, DOI: [10.1088/1757-899X/95/1/012024](https://doi.org/10.1088/1757-899X/95/1/012024), WOS:000365128900024
18. **Radu C.**, Cristea I., Herghelegiu E., Tabacu Ș., *Improving the accuracy of parts manufactured by single point incremental forming*, OPTIROB 2013: Optimization of the Intelligent Systems and their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics and Neurorehabilitation, Applied Mechanics and Materials, ISSN 1660-933, 2014, vol. 332, pp. 443-448, DOI: [10.4028/www.scientific.net/AMM.332.443](https://doi.org/10.4028/www.scientific.net/AMM.332.443), WOS:000345269700064
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21. **Radu C.**, Herghelegiu E., Tampu C., Cristea I., *The residual stress state generated by single point incremental forming of aluminum metal sheets*, Innovative Manufacturing Engineering, Applied Mechanics and Materials, ISSN 1660-933, 2013, vol. 371, pp.148-152, DOI: [10.4028/www.scientific.net/AMM.371.148](https://doi.org/10.4028/www.scientific.net/AMM.371.148), WOS:000334556900029
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D. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

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2. V.A.Ciobotariu, C. Grigoras, **M. C. Radu**, C.N. Tampu, V.Zichil, *The opportunity of using cloud-based computing in numerical simulations on structural analysis - case study*, Journal of Engineering Studies and Research, ISSN 2068-7559, 2022, vol. 28, nr. 1, pp. 38-42, DOI: [10.29081/jesr.v28i1.004](https://doi.org/10.29081/jesr.v28i1.004) (BD: Index Copernicus, ERIH PLUS, Google Academic, Publons)
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5. **Radu M.C.**, Schnakovszky C., Chirita B.A., Tampu N.C., Ciobotariu V.A., Herghelegiu E., *Influence of process parameters on the AWJ cutting of the AL-EN AW 2017A (T4) aluminium alloy*, The 5th International Conference on Computing and Solutions in Manufacturing Engineering (CoSME'20), IOP Conf. Series: Materials Science and Engineering, ISSN 1757-8981, 2020, vol. 1009, nr. 2, 012048 <https://doi.org/10.1088/1757-899X/1009/1/012048>, (BD: Clarivate, Web of Science, Scopus, Compendex, Inspec etc.)
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11. Koliopoulos T., Theocharatos S., Kouloumpis P., **Radu C.**, Cristea I., *A project management geoinformatics utility for health protection and sanitary drawings in green constructions - infrastructure works*, Journal of Engineering Studies and Research, ISSN 2068-7559, 2018, vol. 24, nr. 4, pp. 32-37 (BD: Index Copernicus, ERIH PLUS, Google Academic, Publons etc.)
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