

UAV University Arad
Faculty of Engineering
AIITT Chair
Prof. Dr. Eng. Adriana MOTICA

LIST

scientific works in the field of teaching subjects

A. Doctoral thesis in Material Strength, Elasticity, Plasticity

"Optimization of the resistance structures of machine tools through computer-aided design, with numerical methods. Applications on normal lathes" "Politehnica" University Timisoara,/Faculty of Mechanics 1996

B. Books and book chapters published

1. Dobre I., Negut N., Dumitru I., Chelu P., Motica A., "Problems proposed for the seminar on Materials Resistance", vol. IV, 1992, Timisoara Technical University. 233/66 pages
2. Motica A., "Stress diagrams for statically determined resistance structures", Univ. "Aurel Vlaicu" Arad, 1993; 108 pages
3. Dobre I., Motica A., "Durability calculations. Fatigue of materials", Univ. "Aurel Vlaicu" Arad, 1993; 68/55 pages
4. Dobre I., Negru R., Silaghi D., Sisac I., Sava M., Motica A., "Resistance of Materials. Problems for the exam", Lito. Timisoara Technical University, 1994; 94/18 pages
5. Motica A. "Instructor for laboratory work in the Mechanical Vibrations discipline", "Aurel Vlaicu" University, Arad 1995; 97 pages.
6. Motica A. "Resistance of Materials Course for non-mechanics", volume I, "Aurel Vlaicu" University, Arad, 1996; 185 pages
7. Motica A. "Resistance of Materials Course for non-mechanics", volume II, "Aurel Vlaicu" University, Arad, 1996; 171 pages
8. Motica A. "Mechanical Vibration Course" Aurel Vlaicu University" Arad, 1996; 151 pages
9. Motica A. "Optimization of the resistance structures of machine tools through computer-aided design, with numerical methods. Applications on normal lathes" Summary of the doctoral thesis, "Politehnica" University Timisoara, 1996; 46 pages
10. Dobre I, Silaghi-Perju D., Motica A., Sava M., Sisac I., Negru R. "Resistance of Materials. Problems for the exam- Solutions part I", Lito Technical University Timisoara, 1996; 210/40 pages
11. Dobre I, Motica A. "Resistance of Materials, Elasticity, Plasticity. Volume I: Fundamental Requirements" West Timisoara Publishing House 1997 ISBN 973-36-0301-5; 408/204 pages
12. Motica A. "Numerical researches of strength, stiffness and vibrations of batts" Publisher "Mirton" Timisoara, 1998 ISBN 973-578-579-X; 212 pages.
13. Motica A. "Resistance of Materials. Experimental research of the mechanical behavior of materials under simple demands" Publisher "Multimedia", 2000 ISBN 973-9278-47-7; 130 pages

14. Motica A. "Mechanical vibrations. Applications" Publisher "Multimedia", 2001 ISBN 973-9278-57-4; 202 pages
15. Motica A. "Calculation of special resistance elements" "Aurel Vlaicu" University Publishing House, Arad, 2003, ISBN 973-9361-75-7, 173 pages
16. Motica A. "Fundamental Notions of Material Resistance" "Concordia" Publishing House, Arad, 2003, ISBN 973-7955-03-X, 508 pages
17. Motica A. "Fundamental Notions of Mechanical Vibrations" Multimedia Publishing House, Arad, 2004, ISBN 973-9278-91-4, 190 pages
18. Motica A. "WHAT-quality assurance. WHAT we need to know to have access to the European Union market" Publishing House "Universitatii "Aurel Vlaicu" Arad, 2006, ISBN 973-752-036-X; ISBN 978-973-752-036-4, 112 pages
19. Motica A "Notions of Theory of Elasticity and Numerical Calculation Methods" Publishing House "Universitatii "Aurel Vlaicu" Arad, 2007, ISBN 978-973-752-114-9, 180 pages
20. Motica A., I.Pernevan "Mechanical vibrations. Fundamental notions and their applications in the construction of motor vehicles" Publisher "Aurel Vlaicu University, Arad, 2010, ISBN 978-973-752-441-6, 235 pages
21. Motica A., I.Pernevan "Mechanical vibrations. Experimental research of mechanical structures from the point of view of vibrations" Publishing House "Aurel Vlaicu University, Arad, 2010, ISBN 978-973-752-440-9, 101 pages
22. Motica A., "Fundamental elements of road traffic and traffic safety." -: Aurel Vlaicu University Publishing House, Arad, 2011, ISBN 978-973-752-543-7, 231 pages
23. Motica A., "Resistance of materials-Part I"- -: Aurel Vlaicu University Publishing House, Arad, 2012, ISBN 978-973-752-640-3, voll: 978-973-752-636-6 380 pages
24. Motica A., "Resistance of materials-Part II"- -: Aurel Vlaicu University Publishing House, Arad, 2013, ISBN 978-973-752-640-3, vollI: 978-973-752-650-2 300 pages
25. Motica A., Sima Gh. "Structural notions regarding traffic and road safety" Orizonturi universitare Publishing House, Timisoara, 2013, ISBN 978-973-638-535-3, 193 pages
26. Motica A., "Resistance of Materials. Experimental research of the mechanical behavior of materials under complex demands and phenomena" Gutemberg Univers Publishing House, Arad 2015, ISBN 978-606-675-067-7, 98 pages
27. Motica A., "Vibrations of linear elastic systems. Problems solved and proposed for solution" Gutemberg Univers Publishing House, Arad 2016, ISBN 978-606-675-114-8, 186 pages
28. Motica A., "Strength of materials-Part I"- -: Gutemberg Univers Publishing House, Arad, 2019, ISBN 978-606-675-228-2, vol.1: 978-973-752-636-6 381 pages
29. Motica A., "Strength of materials - Part II" - Gutemberg Univers Publishing House, Arad 2020, ISBN 978-606-675-228-2, vol.2: 281 pages

C. ISI/BDI indexed works published

- 1 Hutiu Gh., Motica A., G. Sima., A. Plesa, Optimization of the ductile cast irons elaboration through the adaptable thermal analysis system. Metalurgia International, Materials Science Research and Development, vol.XIV(2009) no.8, ISSN 1582-2214 (ISI) p.39-43
2. Gheorghe Sima, Elena Muncut, Adriana Motica and Aurelia Tanasoiu, The Process of Weld Brazing CMT (Cold Metal Transfer Pulse) for Assembly of the Different Thin Sheets, The 21th edition of IManEE 2017 International Conference, 03 July 2017, Iasi, Romania , vol. 112 ISSN [https://www.matec-conferences.org/articles /mateconf/abs/2017/26/mateconf_imane2017_03010/mateconf_imane2017_03010.html](https://www.matec-conferences.org/articles/mateconf/abs/2017/26/mateconf_imane2017_03010/mateconf_imane2017_03010.html)

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D. Works published in journals and conference volumes with referees

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3. Dobre I., Motica A., "Research on stress concentration in the case of the connection between a circular cylinder and a square prism", Session of scientific communications of the "Aurel Vlaicu" University-Arad, May 1992, pp. 242-250;
4. Dobre I., Sisak I., Motica A., Popa M., Negru R., "On the extrapolation of creep test results on aluminum or steel-aluminum conductors", VI National Symposium on Tensometry and Testing of materials, with international participation, Craiova, Sept. 1992, vol. II, pp. 421-427;
5. Dobre I., Motica A., Lengyel Z., Redac R., "Numerical and experimental analysis of deformations in a lathe head", VI National Symposium on Tensometry and Material Testing, with international participation, Craiova, Sept. 1992, vol. II, pp. 562-571;
6. Motica A. "Theory of elasticity and the basics of tensor calculus" Doctoral exam notes, 26.11.1992, Timisoara, Biblioteca Univ. "Aurel Vlaicu" Arad.; 247 pages
7. Dobre I., Motica A., "Trials of numeric optimization in the building of a frame lathe" II ELFIN Conference, Sibiu, May 13-15, 1993, Vol. 2.1, pages 31-37
8. Motica A., "Considerations regarding the calculation of orthotropic plates", Doctoral paper, Session "Timisene Academic Days", section: Resistance of Materials, May 20, 1993; "Aurel Vlaicu" University Library of Arad; 51 pages
9. Motica A. "Theory of flat plates" PhD exam notes 07.6.1993, Timisoara Univ. Library "Aurel Vlaicu" Arad.; 265 pages
10. Motica A. "Numerical methods in the theory of stress and deformation states" Doctoral exam notes, 24.11.1993, Timisoara, "Aurel Vlaicu" University Library, Arad.; 163 pages
11. Dobre I., Chelu P., Motica A., Silaghi D., "Tensiometric measurements on a truck chassis", ARTENS Conference, Bucharest, 28-31 Oct. 1994 vol. II, pp. 47-56;
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14. Dobre I., Chelu P., Motica A., "Considerations regarding the dynamic behavior of composite plates", National Conference "Dynamics of Machines CDM'94", Brasov, November 20, 1994 vol. II, page. 57-63;
15. Motica A., "Finite element method applied to the calculation of plate structures. Results. Examples", Doctoral report, Timisoara, Sept. 1994, "Aurel Vlaicu" University Library, Arad; 93 pages
16. Dobre I., Motica A., Chelu P., "Research concerning the Dynamics of a Lathe frame based on a finite element program I-DEAS" Third International Conference on Finite and Boundary Elements ELFIN 3, Constanta May 25-27 1995. sect. 2.1, page 68-72
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18. Dobre I., Motica A., "Numerical modeling with finite elements of the vibrations of a lathe head" 7th International Conference of managerial and technological engineering TEHNO MAN'95, Timisoara 1-2 June 1995.vol.4. page 137-150.

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21. Motica A. "Natural frequencies and natural modes of vibration for a normal lathe head, studied numerically." Session Involvement of scientific research in the development and modernization of manufacturing products. Applied Mechanics Section. Sibiu, November 17-18, 1995. vol. XVII. page 123-131
22. Motica A. "Study of the deformed state of a normal lathe bar, depending on the wall thickness variation, using the finite element method." Session Involvement of scientific research in the development and modernization of manufacturing products. Section of Applied Mechanics. Sibiu, November 17-18, 1995, vol. XIX. pag. 251-261.
23. Motica A. "Numerical and experimental static and dynamic research on a lathe bar" XXVIth Session of scientific communications with international participation, Military Technical Academy, Bucharest November 16-17, 1995, vol.8, page 127- 137.
24. Motica A. "Comparative study of static deformations-numerical and experimental analysis for a normal lathe bar" Jubilee Session of scientific communications. Hunedoara, October 12-13, 1995, vol. V page 99-111.
25. Motica A. "Comparative study of dynamic deformations-numerical and experimental analysis for a normal lathe bar" Jubilee Session of scientific communications. Hunedoara, October 12-13, 1995, vol. V page 112-122.
26. Motica A. "Considerations regarding the substructuring of an assembly of flat plates" Anniversary Symposium 75 years of Higher Mining Education in Romania, Petrosani, October 13-14, 1995, pages 59-65.
27. Motica A "Optimization of the resistance structures of machine tools through computer-aided design, with numerical methods. Applications on normal lathes" PhD Thesis, "Politehnica" University Timisoara, 1996; 247 pages (Doctoral Diploma series M 000117/836/1996), "Politehnica" University Library, Timisoara.
28. Motica A "New structural solutions for a lathe head. Comparative finite element analysis of the deformed state." Scientific communication session of "Aurel Vlaicu" University-Arad, May 16-17, 1996, vol.4, page 100 -105
29. Dobre I., Motica A "Considerations regarding the random vibrations of a lathe head with damped polynomial expression of the excitation functions" Session of scientific communications of the University Part I-a "Aurel Vlaicu"-Arad, May 16-17, 1996, vol.5pag .156-162
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31. Motica A "Comparative numerical research regarding natural frequency and weight on different variants of lathe heads" Annual session of scientific communications of the University of Oradea, Mechanical Section, Resistance of Materials and Vibrations, Oradea, June 1, 1996, vol.1 page. 37-40
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33. Motica A "A new relation of analytical approximation of the autocorrelation function of excitation, for the response of an oscillatory system with constant parameters and complex damping" Scientific and technical bulletin of the University "Aurel Vlaicu" Arad, series zero (mixed), vol.2 Mechanics, 1996, p.1-6
34. Dobre I., Motica A.M. Dynamic measurements of deformations on a normal lathe. Analysis of dynamic stiffness. 7th National Tensometry Symposium with international participation, Suceava October 17-19, 1996, vol I p. 237-242;
35. Motica A.M., "New Results regarding random Vibration of a linear elastic System", Scientific Bulletin of the University "Politehnica" Timisoara, Mecanica series, volume 41(55), 1996, p.15-21

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39. Motica A "Variation of the state of deformation of a normal lathe head depending on the rotation of the main shaft" Annual session of scientific communications of the University of Oradea, Mechanical Section, Resistance of Materials and Vibrations, Oradea, 29-31 May 1997, page. 193-198
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41. I. Dobre; Motica A "New results regarding the study of random vibrations. Part I: Probabilistic characterization of excitation." Second National Conference on "Dynamics of Machines" CDM 97, May 29-31, 1997, Brasov, page 149-153
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43. Motica A "Numerical and experimental research on the dynamics of a lathe" Second National Conference on "Dynamics of Machines" CDM 97, May 29-31, 1997, Brasov, pages 241-245
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45. Motica A "Solving the problems of the Strength of Materials with the help of the Finite Element Method" Medical-scientific Bulletin of the National Council REZMAT-4, May 28, 1997, Brasov, page 95-98
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50. Motica A "MEF applied to the frame lathe analysis. A library organization" Bacau University, Magazine: Modeling and optimization in machine construction" MOCM-3, 1997, pages 109-114
51. Motica A "Contribution concern a new approximation method of autocorrelation function and its use" Bacau University, Magazine: Modeling and optimization in machine construction" MOCM-3, 1997, pag. 114-120
52. Motica A "Plates Optimization, general analytical method." Scientific and technical bulletin of "Aurel Vlaicu" University "Arad, series zero (mixed), vol. 3 Mecanica, ISSN 1223-9917, November 1997, page Mec11-12
53. Hoe A "Optimization attempts of a lathe lathe" Part I XXVII Scientific communication session with international participation, Military Technical Academy, Bucharest November 13-14, 1997, section 16, page 185-194

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55. Motica A "On the optimization of plates with imposed stiffness" Session of scientific communications with international participation, Pitesti, November 21-22, 1997, vol. I, part-II-a, pag. 128-135, ISBN 973-98402-0 -5
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69. Motica A., " Resistance structures-Considerations regarding the general mathematical aspects of optimization problems. Part II" Jubilee Session of Scientific Communications with International Participation, October 27-28, 2000, Arad, Mechanical Series Fascicola Resistance of Materials and Material rolling p.151-156; ISSN 15282-3407
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74. Motica A., "The strengthened way in to the frame lathe. A library organization" 3rd "Dynamics of Machines" Conference, with international participation CDM 2001, October 18-20, 2001, Brasov, page 37- 43
75. Motica A., "Random Vibration Impact on the Functioning Features of a Hydraulic Shock Absorber in its Critical Stage. Part One –Random Vibration Analysis" Magazine Modeling and Optimization in the Machines Building Field MOCM-9, Bacau, November 13-15, 2003, p.146-158, ISSN 1224-7480
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77. Motica A., "Modelling Concepts in Productics. Part1 The necessary steps to conceive a product" Symposium with international participation "Scientific research a bridge towards European integration" Arad, November 3-4, 2004, volume Annale Universitatii "Aurel Vlaicu" from Arad Textile series, p.411-417, ISSN 1582- 3431
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89. Sima Gh., Hutiu Gh., Motica A., "The Study of the Thermal Problems in ZIT", International Symposium Research and Education in an Innovation Era, Sect4. Engineering Processes and Technologies, "Aurel Vlaicu" University of Arad, Arad, 11-12 Nov.2010, ISSN.....,p... -...
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92. Motica A., Pernevan I., "Brief considerations on the calculation of composite structures using a computer" International Symposium Research and Education in an Innovation Era, Sect5. Engineering Processes and Technologies, "Aurel Vlaicu" University of Arad, Arad, Nov. 5-7, 2014, ISSN. p. –
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95. Tanasoiu A., Sima Gh., Muncut S., Motica A.,"Railway vehicles'torsional rigidity" International Symposium Research and Education in an Innovation Era, Sect5. Engineering Processes and Technologies, "Aurel Vlaicu" University of Arad, Arad, 8-10 Dec. 2016, ISSN. p.-
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E. Patents obtained

1. Sobol D., Radu, I., Motica A., Nedelcu D., Suci D.,"Retractable pole for turbines and antennas" No.OSIM A/00207/26.06,2023
2. Sobol D., Radu, I., Motica A., Suci D.,"Device for assembling metal poles and beams" No.OSIM A/00210/27.06,2023

Signature:

Prof.dr.ing.Adriana Motica