

Work published in proceedings of international conferences

No. Article citation

- 1 **THE AMPERE FORCE TENSION CALCULATION**, Dan Chicea, The Third International Conference on Boundary and Finite Element (ELFIN-3), Constanța, pg. 70-74, 25-27 Mai 1995.
- 2 **MICROSCOPIC ACCELERATION MECHANISM AND THE COLD FUSION IN DEUTERATED MATERIALS**, Dan Chicea, International Conference "New Ideas in Natural Sciences", St. Petersburg, Russia, pg. 315-317, 17-22 June 1996.
- 3 **ABOUT NUCLEAR COULOMB BARRIER AND THE ELECTRON OVER-CONCENTRATION**, Dan Chicea, The Sixth International Conference on Cold Fusion, ICCF6, Hokaido, Japonia, pg. 305-308, 13-18 Octombrie 1996.
- 4 **COMPUTER SIMULATION OF THE LIGHT DIFFRACTION**, Dan Chicea, The 4-th International Conference on Boundary and Finite Element, Iași, România, pg. 15-19, 4-6 June 1997.
- 5 **ON NUCLEAR REACTIONS INDUCED BY ELECTRON CLUSTERS**, Dan Chicea, The 22-nd International Congres of the Romanian – American Academy, Târgoviște, 26-29 Iunie 1997, pg. 165-168.
- 6 **ABOUT THE ROLE OF ELECTRON SCREENING IN VERY LOW ENERGY NUCLEAR REACTIONS**, Dan Chicea, 3-rd General Conference Of The Balkan Physical Union, Cluj-Napoca, Romania, pg. 100-103, 2-5 September, 1997.
- 7 **ABOUT DEUTERIUM NUCLEAR REACTION RATE IN CONDENSED MATTER**, Dan Chicea, The 7-th International Conference on Cold Fusion, Vancouver, pg.447-450, 14-21 April 1998.
- 8 **THE ROLE OF THE ENERGY FLUCTUATIONS IN THE POSSIBILITY OF NUCLEAR REACTIONS IN CONDENSED MATTER**, Dan Chicea, The 7-th International Conference on Cold Fusion, Vancouver, pg. 451-454, 14-21 April 1998.
- 9 **EXPERIMENTAL EVIDENCE OF NUCLEAR REACTIONS IN HIGH TEMPERATURE TID SAMPLES**, Dan Chicea, 4th Asti Workshop on Anomalies in Hydrogen / Deuterium loaded Metals, October 22-24 1999, Asti, Italy, 5 pagini, nu cunosc exact care sunt
- 10 **RESULTS IN SEARCH FOR EXCESS POWER USING ELECTROLYSIS WITH DIFFERENT CATHODES**, George H. Miley, Dan Chicea, 4th Asti Workshop on Anomalies in Hydrogen / Deuterium loaded Metals, October 22-24 1999, Asti, Italy, 6 pagini, nu cunosc exact care sunt
- 11 **STATUS AND RECENT STUDIES USING THIN FILM ELECTRODES**, George H. Miley, Dan Chicea, Mike J. Williams, Maria Okuniewski, Giovanna Selvaggi, Andy Tate, Eighth International Conference on Nuclear Engineering, Baltimore, Maryland April 2-6, 2000, 8 pagini, nu cunosc exact care sunt.
- 12 **EXPERIMENTAL EVIDENCE OF NUCLEAR REACTIONS IN DEUTERATED TITANIUM SAMPLES UNDER NON-EQUILIBRIUM CONDITIONS INDUCED BY TEMPERATURE VARIATION**, Dan Chicea, Dorin Stoicescu, The 8-th International Conference on Cold Fusion, Lerici, Italy, pp. 247-250, May 21-26, 2000.
- 13 **ADVANCES IN THIN FILM ELECTRODE EXPERIMENTS**, G.H.Miley, G Selvaggi, A. Tate, M.Okuniewski, M.J. Williams, D. Chicea, H.Hora, J.Kelly, The 8-th International Conference on Cold Fusion, Lerici, Italy, p. 169-172, May 21-26, 2000.,
- 14 **ENERGY SPECTRUM OF \uparrow PARTICLES TRANSMITTED THROUGH METAL FOILS**, Cengiz A., O.Gurler, E.Almaz, A. Chicea D., D.Lupu, Fourth General Conference of the Balkan Physical Union, Veliko Turnovo, 22-25

- 15 August 2000, nu cunosc paginile.
ABOUT A POSSIBLE CORRELATION BETWEEN CURRENT DENSITY AND EXCESS POWER IN ELECTROLYSIS EXPERIMENTS, Dan Chicea, Molecular and Isotopic Processes, (PIM), II-nd edition, Cluj Napoca, 27-29 September 2001, 6 pagini, publicată pe CD.
- 16 **EXPERIMENTAL OBSERVATION OF DIFFERENT ISOTOPES ON CATHODE SURFACE AFTER PROLONGED ELECTROLYSIS**, Dan Chicea, Molecular and Isotopic Processes, (PIM), II-nd edition, Cluj Napoca, 27-29 September 2001, 6 pagini, publicată pe CD.
- 17 **COMMENTS ON AN INTERESTING EXPERIMENTAL FEATURE IN ELECTROLYSIS LOADING EXPERIMENTS**, Dan Chicea, International Symposium on New Energy Conference October 26- 27 2001, Salt Lake City, USA, 5 pagini, nu cunosc paginile.
- 18 **ON CURRENT DENSITY AND EXCESS POWER DENSITY IN ELECTROLYSIS EXPERIMENTS**, Dan Chicea, The 9th International Conference on Cold Fusion, Beijing, pp 49-52, May 19 - 25, 2002
- 19 **ON NEW ELEMENTS ON CATHODE SURFACE AFTER H ISOTOPES ABSORPTION**, Dan Chicea, The 9th International Conference on Cold Fusion, Beijing, May 19 - 25, 2002.
- 20 **EXPERIMENTAL EVIDENCE OF ISOTOPE CONCENTRATION CHANGES ON NICKEL CATHODE SURFACE AFTER HYDROGEN ABSORPTION**, Dan Chicea, The 27th American Romanian Academy of Arts and Science Congress, (The 27th ARA CONGRESS) ORADEA, volumul II, Polytechnic International Press, ISBN: 2-553-01024-9, pp. 1316 - 1318, May 29th – June 2nd, 2002.
- 21 **COMMENT ON RADON CONCENTRATION IN SIBIU DISTRICT (ROMANIA) UNDERGROUND WATER**, Dan. Chicea, C. Cosma, EPS-12: General Conference Trends in Physics, Budapest, pg. 89-92, 26-30 August 2002.
- 22 **CHANGES IN THE RADIOACTIVITY OF NATURAL URANIUM SAMPLES AFTER HYDROGEN LOADING**, J. Dash, D. Chicea, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 23 **ON HEAVY METAL POLLUTION MONITORING RESULTS IN COPSA MICA AREA**, D. Chicea, H. Barbu, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 24 **RESULTS OF NATURAL URANIUM SAMPLE CHARACTERIZATION AFTER HYDROGEN LOADING**, D. Chicea, J. Dash, The Fifth General Conference of the Balkan Physical Union, AUGUST 25-29, 2003, Vrnjacka Banja, SERBIA and MONTENEGRO (published on CD), ISBN 86-902537-4-2.
- 25 **COMMENT ON CARBON PRODUCTION IN DEUTERIUM-METAL SYSTEMS**, D. Chicea, The Tenth International Conference on Cold Fusion (ICCF-10), Cambridge, pp. ##, Massachusetts 24 - 29 August 2003.
- 26 **EFFECTS OF HYDROGEN LOADING BY AQUEOUS ELECTROLYSIS ON RADIOACTIVITY OF URANIUM**, John Dash, D. Chicea, The Tenth International Conference on Cold Fusion (ICCF-10), Cambridge, Massachusetts, pp. ##, USA, 24 - 29 August 2003.
- 27 **On Heavy Metals Pollution In Copsa Mica Area**, Dan CHICEA, Horia BARBU, Adriana MORARIU, The Impact of Physical and Bio-Geo-Chemical Factors on the Sustainable Development, May 15 -16, Simleul Silvaniei, Romania, 2004, nu cunosc paginile.
- 28 **ON ELEMENTS CONCENTRATION CHANGES IN HIGH CURRENT ELECTROLYSIS EXPERIMENTS**, Dan Chicea, The 11-th International Conference on Cold Fusion, Marseilles, France, pp. 30-34, October 31 –

November 5, 2004.

- 29 **RESULTS OF SEDIMENT MOTION VISUALIZATION BY A MODIFIED LASCA TECHNIQUE**, Dan Chicea, International Conference “Micro- to Nano- Photonics - ROMOPTO 2006” August 28-31, 2006, Sibiu, Romania, SPIE proceeding #6785, DOI: [10.1117/12.757883](https://doi.org/10.1117/12.757883).
- 30 **USING RWMCS TO TEST DIFFERENT MULTIPLE LIGHT SCATTERING PHASE FUNCTIONS FOR BIOLOGICAL SUSPENSIONS**, Dan Chicea, International Conference “Micro- to Nano-Photonics - ROMOPTO 2006” August 28-31, 2006, Sibiu, Romania, SPIE proceeding #6785, DOI: [10.1117/12.757873](https://doi.org/10.1117/12.757873)
- 31 **A POSSIBLE APPLICATION OF COHERENT LIGHT SCATTERING ON BIOLOGICAL FLUIDS**, Dan CHICEA, Liana Maria CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 808, published on April 27 2007, DOI:[10.1063/1.2733549](https://doi.org/10.1063/1.2733549) .
- 32 **RESULTS OF BIOSPECKLE DYNAMICS COMPUTER SIMULATION**, Dan CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 714 published on April 27 2007,DOI:[10.1063/1.2733455](https://doi.org/10.1063/1.2733455).
- 33 **ON BIOSPECKLE SIZE ANALYSIS TECHNIQUE IN PARTICLE CONCENTRATION AND SIZE ASSESSMENT**, Dan CHICEA, the 6-th International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP proceeding 899, pp. 809, published on April 27 2007, DOI:[10.1063/1.2733550](https://doi.org/10.1063/1.2733550)
- 34 **CHODIN- A COMPUTER CODE TO SIMULATE COHERENT LIGHT SCATTERING DYNAMICS ON BIOLOGICAL SUSPENSIONS**, Dan Chicea, International Conference“LASER and APPLICATIONS”- INDLAS 2007 May 23-25, 2007, Bran, Romania, Proceedings of SPIE Volume: 7007, DOI: [10.1117/12.801959](https://doi.org/10.1117/12.801959)
- 35 **APPLICATION OF WHOLE BLOOD IMAGE SPECKLE ANALYSIS**, Dan Chicea, International Conference “LASER and APPLICATIONS”- INDLAS 2007 May 23-25, 2007, Bran, Romania, Proceedings of SPIE Volume: 7007,DOI: [10.1117/12.801934](https://doi.org/10.1117/12.801934)
- 36 **Magnetic fluid particle sizing by coherent light scattering - computer simulation results**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 37 **High accuracy photopyroelectric investigations of dynamic thermal parameters of fluids**, Dorin Dadarlat, Camelia Neamtu, Mihaela Streza, Dan Chicea, Aurel Pasca, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 38 **An Alternative Algorithm to Calculate the Biospeckle Size in Coherent Light Scattering Experiments**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 39 **Coherent light scattering on RBCs - experimental results and possible biomedical application**, Dan CHICEA, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 40 **Results of Physical and Chemical Parameters Monitoring of The “Râului Mare” River**, Letiția OPREAN, Dan CHICEA, Enikő GASPAR, Ecaterina LENGYEL, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 41 **Results of Low B- Irradiation Doses on *Saccharomyces Cerevisiae***

- Fermentation Process**, Letiția OPREAN, Dan CHICEA, Enikő GASPAR, Ecaterina LENGYEL, 8-th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2007.
- 42 **Nanoparticle Sizing By Coherent Light Scattering**, Dan Chicea, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 43 **On Magnetic Fluid Static and Dynamic Light Scattering Properties**, Dan Chicea, Mihaela Răcuciu, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 44 **Magnetic Nanoparticles Coated with Biocompatible Compounds**, M.Răcuciu, D.E. Creangă, A.Airinei, Dan Chicea, V. Bădescu, The 5th Conference "New Research Trends In Material Science"ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- 45 **Results of Coherent Light Scattering Dynamics on Magnetic Fluids Computer Simulation**, Dan Chicea, The Fifth Conference "Isotopic and Molecular Processes" Cluj-Napoca, Romania, September 20 – 22, 2007
- 46 **Coherent Light Scattering Measurements On Diluted Milk**, Dan Chicea, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007
- 47 **Practical aspects regarding the physiological active state and the autolysis of the starter *Sacharomyces cerevisiae* culture**, Letiția Oprean, Enikő Gaspar, Ecaterina Lengyel, Dan Chicea, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007.
- 48 **Physical and chemical parameters of the "Râul Mare" river – monitoring results**, Letiția Oprean, Dan Chicea, Enikő Gaspar, Ecaterina Lengyel, The 5th International Conference INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION SIPA07, Sibiu, November 22-24, 2007.
- 49 **Measuring very small concentrations in aqueous suspensions by coherent light scattering**, Letitia Oprean, Dan Chicea, Ecaterina Lengyel, International Conference MODERN LASER APPLICATIONS, Bran, Romania, Mai 20-23, 2008
- 50 **Probing particle aggregation in suspension by coherent light scattering**, Dan CHICEA, International Conference MODERN LASER APPLICATIONS, Bran, Romania, Mai 20-23, 2008
- 51 **Using CHODIN to simulate coherent light scattering on nanofluids**, Dan Chicea, Dan CHICEA, International Conference MODERN LASER APPLICATIONS, Bran, Romania, Mai 20-23, 2008
- 52 **Investigating nanoparticle aggregation in aqueous suspensions by coherent light scattering**, Dan CHICEA, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 53 **On magnetic nanofluid synthesis and some physical properties**, Dan CHICEA, Carmen M. Goncea, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 54 **On heavy metals concentration monitoring in Hârtibaci river during 2005**, Dan CHICEA, N. Popescu, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 55 **Experimental study on the effects of very low β - irradiation doses (1 – 4 gy) on *saccharomyces cerevisiae* fermentation process**, Letiția OPREAN, Dan CHICEA, Ecaterina LENGYEL, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 56 **A coherent light scattering experiment to measure very small suspension concentration in natural water**, Letiția OPREAN, Dan CHICEA, Ecaterina LENGYEL, INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Constanta, Romania, July 5-7, 2008
- 57 **Revealing nanoparticle aggregation dynamics by coherent light**

- scattering**, Dan Chicea, ADVANCED SPECTROSCOPIES ON BIOMEDICAL AND NANOSTRUCTURED SYSTEMS, September 7-10, 2008, Cluj-Napoca, ROMANIA
- 58 **Analyzing Light Scattering Time Series of Biological Fluids**, Dan CHICEA, Radu Chicea, Liana-Maria Chicea, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009), published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences , Vol. 1 Number 2 , pg: 121-127, 2009
- 59 **On Aqueous Magnetic Fluid Particle Sizing Using DLS**, Dan CHICEA, Carmen Monica GONCEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009), published in International Journal of Advanced Statistics and IT&C for Economics and Life Sciences , Vol. 1 Number 2 , pg: 101-106, 2009
- 60 **A Monte Carlo Algorithm to Simulate Nanoparticles Brownian Motion**, Dan CHICEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009)
- 61 **RWMCS - An alternative Monte Carlo algorithm to simulate light scattering in biological suspensions**, Dan CHICEA, 1st International Workshop - Advanced Statistics and IT&C Techniques Applied to Economics and Life Sciences, 3-6 Mai 2009, Sibiu, Romania (ASITELS 2009)
- 62 **Dynamic Light Scattering Particle Sizing Analysis On Biological Fluids**, Dan CHICEA, Radu CHICEA, Liana-Maria CHICEA, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 63 **Investigating Nanoparticle Aggregation Dynamics In An Aqueous Magnetic Fluid By Light Scattering Anisotropy**, Dan CHICEA, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 64 **A Comment On Physics Education In Romania**, Dan Chicea Dumitru Batâr, Dorin Stoicescu, Aurel Pașca, 10th International Balkan Workshop on Applied Physics, July 6-8, 2009, CONSTANTA, ROMANIA
- 65 **Computer Simulation of Coherent Light Scattering Dynamics on Nanofluids**, Chicea Dan, Workshop on Trends in Nanoscience: Theory, Experiment, Technology, August 23-30, 2009, Sibiu, Romania
- 66 **Revealing Nanoparticle Aggregation Dynamics By Light Scattering Anisotropy Measurement**, Chicea Dan, Workshop on Trends in Nanoscience: Theory, Experiment, Technology, August 23-30, 2009, Sibiu, Romania, published in Trends in Nanophysics Engineering Materials, 2010, Volume 0, Part 6, 331-350, DOI:10.1007/978-3-642-12070-1_15, Springer-Verlag Berlin Heidelberg 2010.
- 67 **Investigating Nanoparticle Aggregation Dynamics in an Aqueous Magnetic Fluid by Light Scattering Anisotropy**, Dan Chicea, Intl. Conference "Micro- to Nano-Photonics II - ROMOPTO 2009", August 31- September 3, 2009, Sibiu, Romania, published in Proc. of SPIE 2009, vol. 7469, 74690O-1-9, doi:10.1117/12.865610
- 68 **Using CHODIN to simulate the dynamics of coherent light scattering on nanofluids**, Dan CHICEA, Intl. Conference "Micro- to Nano-Photonics II - ROMOPTO 2009", August 31- September 3, 2009, Sibiu, Romania, published in Proceedings of the SPIE, Volume 7469, pp. 74690B-1-74690B-8 (2009), doi: [10.1117/12.866768](https://doi.org/10.1117/12.866768).
- 69 **Measuring very small concentrations in organic suspensions by coherent light scattering, Dan Chicea**, Intl. Conference "Micro- to Nano-Photonics II - ROMOPTO 2009", August 31- September 3, 2009, Sibiu, Romania, , published in Proc. of SPIE 2009, vol. 7469, pp. 74690P-1-6, doi: [10.1117/12.861750](https://doi.org/10.1117/12.861750).

- 70 ***Using DLS for Fast Urine Sample Analysis***, D. Chicea, R. Chicea, and L. M. Chicea
AIP Conf. Proc. -- August 4, 2010 -- Volume 1262, pp. 150-154
Proceedings of the Physics Conference TIM-9; doi:10.1063/1.3482223
- 71 ***Monitoring Nanoparticle Aggregation by Coherent Light Scattering Measurements***, Dan Chicea, Physics Conference TIM-09, 27–28 November 2009, Timisoara, Romania
- 72 ***Imaging Human Serum Albumin***, Dan Chicea, Liana Maria Chicea, Radu Chicea, Dan Chicea, Physics Conference TIM-10, 25–27 November 2010, Timisoara, Romania, AIP Conf. Proc. -- October 3, 2011 -- Volume 1387, pp. 247-252, doi:10.1063/1.3647082, Issue Date: 3 October 2011
- 73 ***A Monte Carlo Simulation of Light Scattering on Biological Suspensions with Bigger Optical Depth***, Chicea, Dan, Physics Conference TIM - 11 Timisoara, ROMANIA: NOV 24-27, 2011, PROCEEDINGS OF THE PHYSICS CONFERENCE TIM – 11 Book Series: AIP Conference Proceedings Volume: 1472 Pages: 230-237 DOI: 10.1063/1.4748093 Published: 2012
- 74 ***Estimating Particle Concentration in Natural Water by Speckle Size Measurement***, Dan Chicea, Proc. of 11th International Conference on Environment, Ecosystems and Development (EED '13), Brașov, Romania, June 1-3, 2013, pp.156-161, ISBN: 978-1-61804-195-1.
- 75 ***Water Suspension Analysis by Modified Dynamic Light Scattering***, Dan Chicea, Proc. of 11th International Conference on Environment, Ecosystems and Development (EED '13), Brașov, Romania, June 1-3, 2013, pp.40-49, ISBN: 978-1-61804-195-1.
- 76 ***Monitoring nanoparticle aggregation by optical procedures***, Dan Chicea, PROCEEDINGS OF THE PHYSICS CONFERENCE TIM – 12, Book Series: AIP Conf. Proc. 1564, pages: 84-89, (2013);
<http://dx.doi.org/10.1063/1.4832800>
- 77 ***A Study of Milk Particles Size Variation with pH Change using Dynamic Light Scattering***, Dan Chicea, and Liana Maria Chicea, MATEC Web of Conferences vol. 290, art. no. 3003, 2019, DOI:10.1051/matecconf/201929003003, ISI indexed.
- 78 ***NANOPARTICLES SIZE DISTRIBUTION ASSESSMENT DURING EARLY SYNTHESIS STAGES***, Dan Chicea, Mirela Maria Codescu, Alexandra Nicolae, Oleksandr Doroshkevych, Akhmed Islamov and Miroslaw Kulik, 10 th INTERNATIONAL CONFERENCE MANUFACTURING SCIENCE AND EDUCATION -MSE 2021-, june 2-4, Sibiu, Romania
- 79 ***SIZING PARTICLES IN GASES BY AN ADVANCED OPTICAL PROCEDURE***, Dan Chicea, Cristian Leca and Sorin Olaru, 10 th INTERNATIONAL CONFERENCE MANUFACTURING SCIENCE AND EDUCATION -MSE 2021-, june 2-4, Sibiu, Romania