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Archival Publications

1. Co-author - N.F. Morris, "An Elastic-Plastic Stress Solution using the Incremental Theory," International Journal of Mechanical Sciences. February 1971, pp. 97-106.
2. Co-author - J.B. Kruger, "An Investigation of Springback in Wire Products," Journal of Engineering for Industry, A.S.M.E., Feb. 1972, pp. 329-335. Also presented at the Symposium on the Fabrication of Advanced Material., April 5-7, 1971.
3. Co-author - D.A. Seccombe, "Springback of Wire Products Considering Natural Strain," presented to the Products Div., A.S.M.E., at New York Winter Convention, 1/72, published in Journal for Industry, August, 1973. Paper #72-WA/Prod-10 - pp. 809-814.
4. "An Elastic-Plastic Buckling Solution Using the Incremental Theory," International Journal of Mechanical Science, April 1973, pp. 279-290.
5. Committee Report - "State of the Art Report on Fiber Reinforced Concrete," Journal of the American Concrete Institute, November, 1973, pp. 729-744.
6. Co-author - Michael Hartnett, "Permanent Deformation of Bearing Raceway," Transaction of American Society of Lubrication Engineers, Vol. 19, April, 1976, pp. 115-124.
7. Co-author - L. L. Durocher, "A Singularity Approach to Circular Plates," presented at the Design Engineering Conference, ASME, April 5-8, 1976, Chicago, Illinois. Paper #76 - DE-28, also published in the Transaction ASME, Journal of Engineering for Industry, November, 1976, pp. 1176-1178.
8. "Bifurcation and Collapse Analysis of Stringer and Ring-Stringer Stiffened Cylindrical Shells with Cutouts," presented at the Second National Symposium on Computerized Structural Analysis and Design, George Washington University, Washington, DC: March 29-31, 1976. Published in the Int. Journal of Computers and Structures, Vol. 7, pp. 47-58, 1977.
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Journal of Lubrication Technology, pp. 602-606. October, 1976, also presented at the ASME Lubrication Symposium, May 24-26, 1976 at Atlanta, Georgia, paper #76-Lubs 12.

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14. Co-author - D. Schneider, "A Technique for Evaluating a Unique Set of Three Weibull Parameters Considering Composite Materials," published in the Journal of Fiber Science and Technology, Vol. 12, No. 4, July 1979, pp. 269-281.
15. Co-author - K.C. Rolle and J. N. Crisp, "Design and Analysis of a High Pressure Apparatus," presented at the ASME Design Engineering Conference, Chicago, Ill., May 9, 1979, published in the Journal of Mechanical Design, ASME, July, 1980, pp. 633-640.
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- 288 Easterday, O., Palazotto, A.,Branam,R.,and, Baker, W., “Experimental Characterization of Damping Properties of Coatings at Elevated Temperatures” presented at the 52nd AIAA SDM Conference ,Denver,CO.,April, 4-7, 2011, paper # AIAA 2011-1943
- 289 . O’Hara, R.,and Palazotto,A.,”Structural Identification and Simulation of the Manduca Sexta”, presented at the 52nd AIAA SDM Conference ,Denver,CO.,April, 4-7, 2011, paper # AIAA 2011-2066..
- 290 Palazotto, A., and Meador, S., “Consideration of Wear at High Velocities Using a Hydrocode”, presented at the 52nd AIAA SDM Conference, Denver, CO.,April, 4-7, 2011, paper # AIAA 2011-2120.
- 291 Abu Al-Rub, R.,and Palazotto, A., “Nonlocal Constitutive Model for Simulating Localized Damage and Fracture Viscoplastic Solids Under Energy Impact”, presented at the 52nd AIAA SDM Conference ,Denver,CO.,April, 4-7, 2011, paper # AIAA 2011-2175
- 292 \ Szlag, T. and Palazotto, A.,” Effects of Inaccuracies in Small Nonhomogeneous Fiber Specimens”, presented at the 7th Annual Dayton Engineering Science Symposium, ASME, Wright State University, Dayton, Ohio, October, 26,2011

- 293 Hollenbeck, A., and Palazotto, A., "Evaluation of the Hawkmoth Thorax for Flapping Wing Micro Air Vehicles" presented at the 7th Annual Dayton Engineering Science Symposium, ASME, Wright State University, Dayton, Ohio, October, 26,2011
- 294 Murray, J., and Palazotto, A., "The Use of Photogrammetry to Evaluate Dynamics Characteristics of a Manduca Sexta Wing" presented at the 7th Annual Dayton Engineering Science Symposium, ASME, Wright State University, Dayton, Ohio, October, 26,2011
- 295 .Almodovar, G., and Palazotto, A., "Characterization of Composite Materials for Application in Antenna Waveguide Design In Remotely Piloted Aircraft Structures", presented at the 7th Annual Dayton Engineering Science Symposium, ASME, Wright State University, Dayton, Ohio, October, 26,2011
- 296 Palazotto, A., and Meador, S., "Consideration of Wear at High Velocities Using a Hydrocode", presented at the 52nd AIAA SDM Conference, Denver, CO., April, 4-7, 2011, paper # AIAA 2011-2120.
- 297 Palazotto, A., and McCormick, H., "Report on Phase II Progress in High Velocity Wear", January 8, 2012
- 298 .Buentello, R., Palazotto, A., and Baker, W., "The Evaluation of Material Failure Due to High Speed Sliding", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012
- 299 Dauby, B., and Palazotto, A., "The Evaluation of Muscle Reaction of a Manduca Sexta Due to Electronic Impulse", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012
- 300 .Cox, J., and Palazotto, A., "Mistuning Considerations In a Rotating Disk" ", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012.
- 301 Szelag, T., and Palazotto, A., "Composite Material Inaccuracies Considering a Composite MAV Wing" ", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012
- 302 .Lee, K., and Palazotto, A., "A Study of the Thermal Environment Developed by a Traveling Sleigh at High Velocities" ", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012.
- 303 Almodovar, G., and Palazotto, A., "Characterization of Composite Materials in the X- Band Radio Frequency Range for Application in Antenna and Waveguide Design" ", presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio, March, 6, 2012.

- 304 Metlen, T., and Palazotto, A., “Design Challenges of Lighter Than Air Vehicles”
”, presented at the 37th Annual Dayton- Cincinnati Aerospace Science Symposium,
Dayton, Ohio, March, 6, 2012.
- 305 Hollenbeck, A., and Palazotto, A., “Mechanics of the Hawkmoth Thorax Material
Properties and Power Calculations for Micro Air Vehicle Research. ”, presented at
the 37th Annual Dayton- Cincinnati Aerospace Science Symposium, Dayton, Ohio,
March, 6, 2012.
- 306 DeMarci, L., Palazotto, A., Hollenbeck, A., and Cavallaro, R., “Exploring
Structural Investigation of a Hawkmoth Inspired MAV Thorax”, AIAA, paper,
presented at the AIAA SDM Conference, Honolulu, Hawaii, April, 8, 2012
- 307 McCormick, H., and Palazotto, A., “Report on the Progress of Phase II High
Velocity Wear”, Presented at Eglin, AFB, April, 16, 2012
- 308 Palazotto, A., and Huber, D., “Evaluation of Wear Under High Velocities”,
Presented at the ASCE Engineering Mechanics Institute Conference, 2012, Notre
Dame University, June, 18-20, paper No. 410.
- 309 Hollenbeck, A., and Palazotto, A., “Evaluation of the Thorax of a Manduca Sexta
for Flapping Wing Micro Air Vehicle Applications, Presented at the ASCE
Engineering Mechanics Institute Conference, 2012, Notre Dame University, June,
18-20, paper No. 556
- 310 Hernandez, B. ,and Palazotto,A. ,, “Three Dimensional Finite Element Modeling
of High Speed Sliding Wear” AIAA 2013- 1505, presented at the AIAA SDM
conference, April 7-11, 2013, Boston, Mass.(presented by Carl Parsons Ctr)
- 311 Metlen, T. ,and Palazotto,A., “ Design of a Structure That Achieves Positive
Buoyancy in Air Using a Vacuum”, AIAA 2013-1881, , presented at the AIAA
SDM conference, April 7-11, 2013, Boston, Mass.(presented by Carl Parsons Ctr)
- 312 Parson, C., Chrissis, J., O’Hara, R., and Palazotto, A., Direct Search Optimization
of a Flapping Micro Air Vehicle Wing”, AIAA 2013-1679,, presented at the
AIAA SDM conference, April 7-11, 2013, Boston, Mass
- 313 Cranston, B., and Palazotto, A., “Evaluation of the Thorax of the Manduca Sexta
for Flapping Wing Micro Air Vehicle Application”, Presented at the WSU, DESS
2012 conference, October, 24, 2012
- 314 Wuertemberger, L.,and Palazotto,A.,”Predicting Wear of a high Speed Rocket
Sled”, Presented at the WSU, DESS 2012 conference , October,24,2012

- 315 Hernandez, B., and Palazotto, A., "Three Dimensional Finite Element Modeling of High Speed Sliding Wear", Presented at the WSU, DESS 2012 conference, October, 24, 2012
- 316 Metlen, T., and Palazotto, A., "Vacuum Lighter Than Air Vehicle", Presented at the WSU, DESS 2012 conference, October, 24, 2012
- 317 Cox, G., and Palazotto, A., "Validation Processes for Mistuned Rotors", Presented at the WSU, DESS 2012 conference, October, 24, 2012
- 318 Dauby, B., and Palazotto, A., "Finite Element Analysis of Nanoindentation of Manduca Sexta Flight Muscles", Presented at the WSU, DESS 2012 conference, October, 24, 2012
- 319 Deleon, Armando, and Palazotto, A., "Column Buckling Prediction Using Finite Elements", Presented at the WSU, DESS 2012 conference, October, 24, 2012
- 320 Metlen, T., and Palazotto, A., "Design of a Lighter Than Air Vehicle that Achieves Positive buoyancy Using a Vacuum", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio. (Student received outstanding paper award).
- 321 Deleon, A., and Palazotto, A., "Shock Wave Propagation in a Bar", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio
- 322 Wuertemberger, L., and Palazotto, A., "Predictiong Wear of the Holloman Test Track Sleigh", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio
- 323 Le, K., Palazotto, A., and Baker, W., "The Evaluation of Melt Wear Due to High Speed of a Traveling Sled", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio
- 324 Hernandez, B., and Palazotto, A., "Three Dimensional Evaluation of High Velocity Asperity Impact", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio
- 325 Engelbreton, C., and Palazotto, A., "Using Hysteretic Energy to Evaluate Damping Properties of Hard Coatings on Titanium", Presented at the AIAA 38th Dayton-Cincinnati Aerospace Science Symposium, March, 6, 2013, Dayton, Ohio
- 326 Cranston^{*#}, Brian, and Palazotto, A., "Evaluation of the Thorax of the Manduca Sexta for Flapping Wing Air Vehicle", (Award Winner), presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013

- 327 Alban^{**}, C., Palazotto, A., Baker, W., and Rutledge, J., “Thermal and Melt Wear Characterization of Materials in Sliding Contact at High Speeds”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 328 Cavallaro^{**}, G., Palazotto, A., Baker, W., “Comparison of Medium and High Speed Wear Rates Using Abaqus”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 329 Deleon^{**}, A., and Palazotto, A., “Finite Element Modeling of Stress Wave Propagation”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 330 Adomo-Rodriguez^{**}, R. and Palazotto, A., “The Analysis of a Lighter Than Air Vehicle Within a Vacuum”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 331 Cox^{**}, G., Palazotto, A., Brown, J., and George, T., “Experimental Uncertainty Qualification and its Cumulative Effects on the Identification of Geometric Mistuning In Cyclic Structures”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 332 Wuertemberger^{**}, L., and Palazotto, A., “Predicting Wear of a High Speed Rocket Sled Using a HydroCode (CTH)”, presented at the WSU, ASME, DESS, 2013, Conference, October, 29, 2013
- 333 Alban^{**}, C., Palazotto, A., Baker, W., and Rutledge, J., “High Speed Effects on Thermal Wear”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March, 5, 2014. Dayton, Ohio.
- 334 Cavallaro^{**}, G., Palazotto, A., and Baker, W., “The Use of Abaqus in Evaluating Medium Velocity Wear”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March, 5, 2014. Dayton, Ohio.
- 335 Cranston^{**}, B., and Palazotto, A., “Evaluation of a Flapping MAV Wing”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March, 5, 2014. Dayton, Ohio.
- 336 Deleon^{**}, A., and Palazotto, A., “Wave Propagation in a 3D Beam”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March, 5, 2014. Dayton, Ohio.
- 337 Adomo^{**}, Rodriguez, R., and Palazotto, A., “Analysis of a LTA Vehicle”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March, 5, 2014. Dayton, Ohio

- 338 Cox^{##}, G., Palazotto, A., Brown, J., George, T., “Experimental Evaluation of Mistuning”, presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March,5, 2014. Dayton, Ohio.
- 339 Wuertemberger^{##}, L., and Palazotto, A., “The Use of a HydroCode in Evaluating Wear at High Velocities” presented at the AIAA 39th Dayton-Cincinnati, Aerospace Science Symposium, March,5, 2014. Dayton, Ohio.
- 340 Cranston^{##}, Brian, and Palazotto, A., “Evaluating Unique Lighter Than Air Vehicles With an Internal Vacuum”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014
- 341 Just*, L., Palazotto, A., and Deluca, A., “Dynamic Response Analysis of an Icosahedron Frame Lighter Than Air Vehicle”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014.
- 342 Adomo -Rodriguez, R., and Palazotto*, A., “UAV- LTAV One Foot In Diameter”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014
- 343 Deleon^{##}, A., and Palazotto, A., “Stress Waves in a Beam Under Dynamic Loading”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014.
- 344 Hodkin*, R., Palazotto, A., and Deluca, A., “Response Characteristics of a Simplified Piezoelectric Shaker Table Mechanical Model Using Classical Vibration Theory”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014.
- 345 Cox^{##}, G., Palazotto, A., Brown, J., and George, T., “Recreating a Forced Boundary Condition Using Physical Supports”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014.
- 346 Wuertemberger^{##}, L., and Palazotto, A., “A Study of the Johnson- Cook Strength and Damage Model”, presented at the WSU, ASME, DESS, 2014, Conference, October, 28, 2014.
- 347 Alghofaily, M., and Palazotto, A.,” Analysis of 3 D Frame in the Form of a sphere”, presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.
- 348 Cranston^{##}, B., and Palazotto, A., “Evaluation of Unique Lighter Than Air Vehicles”, presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.

- 349 Deleon^{*#}, A., and Palazotto, A., “Elastic Wave Action Under Dynamic Loading”, presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.
- 350 Hodkin*, R., and Palazotto, A., “Model Characteristics of a Piezoelectric Shaker Table”, presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.
- 351 Just*, L., and Palazotto, A., ‘ Nonlinear Dynamic Response Analysis of an Icosahedron Frame”, presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.
- 352 Wuertemberger^{*#}, L., and Palazotto, A., “Evaluation of the Viscoplastic Properties of Treated 4130 Steel of Flow and Failure Based on the Johnson-Cook Damage and Flow Model” presented at the AIAA 40th Dayton-Cincinnati, Aerospace Science Symposium, March,4, 2015. Dayton, Ohio.
- 353 Adorno- Rodriguez, R., and Palazotto,*, A., “Nonlinear Structural Analysis of an Icosahedron Under an Internal Vacuum”, presented at the SCITECH 2015 conference, January, 5-9, Kissimmee, FL.
- 354 Just, L., and Palazotto, A., Evaluation of an Icosahedron Eigenvalue”, presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-0202.
- 355 Cranston, B., and Palazotto, A., Design of Unique Structures Under an Internal Vacuum”, presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-0487.
- 356 Knapp, K., Palazotto, A., and Scott-Emuakpor, O., “Goodman Data Improved”, presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-0925.
- 357 Graves, W., Liu, D., and Palazotto, A., “ Topology Evaluation of a Warhead”, presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-1509.
- 358 Dempsey, A., Liu, D., Palazotto, A., and Abraham, E.,“ Dynamic Properties of Added Manufactured 15-5 PH Stainless Steel and 3D Micromechanics”, presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-1510.
- 359 Hanks, E., Liu, D., and Palazotto, A., “ Surface Roughness Effects on Ultra Testing of Additive Manufactured “,presented at the 57th AIAA/ASCE/AHS/ASC SciTech 2016, San Diego, Ca., January, 4-8, 2016,paper # AIAA 2016-1512.

- 360 Palazotto, A., and AlGhofaily, M. "Analysis of a 3D Frame of an Icosahedron", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, November, 2, 2015.
- 361 Cranston*, B., and Palazotto, A., "Design and Structural Analysis of Unique Structures", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 362 Knapp, K., Palazotto, A., Scott-Emualpor, O., and George, T., "Improved Pre-Strain Method for Generating Goodman Data With Vibration Based Fatigue Testing", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 363 Deleon, A., and Palazotto, A., "Description of the Penalty Method Utilized by Abaqus When Contact Occurs", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 364 Dempsey, A., Liu, D., Palazotto, A., and Abrahams, R., "Properties of 15-5 Additive manufactured Stainless Steel", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, and November, 2, 2015.
- 365 Graves, W., Liu, D., and Palazotto, A., "Topology Optimization of a Penetrating Warhead", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 366 Wuertemberger, L., and Palazotto, A., "Evaluation of Flow and Failure Properties of Treated 4130 Steel", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 367 Hanks, E., Liu, D., and Palazotto, A., "Effects of Surface Roughness of Electron Beam Melting ti-6Al-4v on Ultrasonic Testing", presented at the 11th Annual Dayton Engineering Sciences Symposium, WSU, Ohio, November, 2, 2015.
- 368 Wuertemberger, L., and Palazotto, A., "Microstructural Investigation of Dynamically Failed Heat Treated 4130 Steel", Presented at the 41st Annual Dayton-Cincinnati Aerospace Science Symposium, Sinclair CC, Dayton, Ohio, March, 2, 2016.
- 369 Mirmasoudi, S., and Palazotto, A., "High Temperature Transient Creep Analysis of Metals", Presented at the 41st Annual Dayton-Cincinnati Aerospace Science Symposium, Sinclair CC, Dayton, Ohio, March, 2, 2016.
- 370 Hanks, E., Liu, D., and Palazotto, A., "Effect of Surface Roughness of Electron Beam Melting Ti-6Al-4v on Ultrasonic Testing", Presented at the 41st Annual

Dayton-Cincinnati Aerospace Science Symposium, Sinclair CC, Dayton, Ohio, March, 2, 2016.

- 371 Graves, W., Liu, D., and Palazotto, A., “A Warhead Design Using Optimization”, Presented at the 41st Annual Dayton-Cincinnati Aerospace Science Symposium, Sinclair CC, Dayton, Ohio, March, 2, 2016.
- 372 Dempsey, A., Liu, D., and Palazotto, A. “Effects of the Additive Manufacturing Methods on the Dynamic Properties of Stainless Steel”, Presented at the 41st Annual Dayton-Cincinnati Aerospace Science Symposium, Sinclair CC, Dayton, Ohio, March, 2, 2016.