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Supervised Theses

1. Onay, O., K., "Ablation Modeling for High Speed Internal and External Flows", PhD. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, January 2020.

2. Akar, G. "Development and Evaluation of New Bleed Boundary Condition Models for Supersonic Inlet Boundary Layer Bleed Flow", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2019.

3. Kutkan, H. "Aerothermodynamic Shape Optimization Using DSMC and POD-RBF Methods", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, July 2018.

4. Eren, O., "Analysis, Design and Test of a Jet Vane Based Thrust Vector Control for Tactical Missiles", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, November 2017.

5. Demiral, E., "Conceptual Aerodynamic Design of Ramjet Missiles", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, November 2017.

6. Yildirim, A., "Aerodynamic Design Optimization Using 3-Dimensional Euler Equations and Adjoint Method", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, January 2017.

7. Gür, H. B., "Effects of Diffusion in Hypersonic Flow ", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2016.

8. Ozgun, M, "Analysis of Hypersonic Flow using Three Dimensional Navier-Stokes Equations", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2016.

9. Rouzbar, R., "Three Dimensional Reacting Flow Analysis of a Cavity-Based Scramjet Combustor", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, February 2016.

10. Muslubas, Y. E., "Choice and Development of a Preconditioner for Newton-GMRES Algorithm", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara Turkey, September 2015.

11. Pişkin, T. "Analysis Of Weakly Ionized Hypersonic Flow", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, July 2015.

12. Celiker, H. E., "CFD Analysis of Missile Shroud Seperation", Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara Turkey, February 2015.

13. Can, M., "Numerical Simulation of Hydrodynamic Planar Motion Mechanism Test for Underwater Vehicles," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2014.

14. Akman, O., "Design Optimization of Subsonic-Transonic Cruise Missile Submerged Inlet," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara Turkey, September 2014.

15. Yıldızlar, B., "Performance Comparison of Newton and Newton-GMRES method in 3-D Flow Analysis," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2014.

16. Duzel, U. "The Effects of Static Aeroelasticity on the Performance of Two-Dimensional Converging Diverging Nozzles," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, February 2014.

17. Ayan, E. "Performance Analyses of Newton Method for Multi-Block Structured Grids," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2011.

18. Ezertaş, A. "Sensitivity analysis using finite difference and analytical Jacobians," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara Turkey, September 2009.

19. Özhamam, M. "Accuarcy and Efficeinecy Improvements in Finite Difference Sensitivity Calculations," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, December 2007.

20. Onur, Ö, "Effect of the Jacobian evelution on direct solutions of the Euler equations," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, December 2003.

21. Kaplan, B., "Performance Evaluation and Improvements of Inverse Compressor Casacade Design," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, August 2000.

22. Kocabıçak, E. "Sensitivity Analysis in Turbomachinery Cascade Design Optimization," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2000.

Co-Supervised Theses

23. Durmuş, G. "Parallel Navier Stokes Solutions Of Low Aspect Ratio Rectangular Flat Wings In Compressible Flow," PhD. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2004.

24. Hasbestan, J. J., "Free Flexural (or Bending) Vibrations Analysis of Certain Groups of Stiffened Composite Plates or Panels in Flight Vehicle Structures," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, December 2009.

25. Kilerci, S. "A trial for a New Turbulence Model for Low Reynolds Number Boundary Layer," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, September 2000.

26. Ekici, K., "Quasi-three-dimentional Analysis and Design Turbomachinery Blades with Boundary Layer Coupling," Ms. Thesis, Department of Aerospace Engineering, Middle East Technical University, Ankara, Turkey, December 1997.