REFERENCES

- G. E. Warnaka, "Active attenuation of noise the state of the art," Noise Control Engineering, Vol. 18, No. 3, 1982, pp. 100-110.
- [2] S. J. Elliott and P. A. Nelson, "the active control of sound," electronics and Communication Engineering Journal, Aug, 1990, pp127-136.
- [3] P. A. Nelson and S. J. Elliott, *Active Control of Sound*. New York: Academic Press, 1992.
- [4] C. R. Fuller, S. J. Elliott and P. A. Nelson, *Active Control of Vibration*. New York: Academic Press, 1996.
- [5] P. Lueg, "Process of silencing sound oscillations," 1936, US Patent No. 2,043,416.
- [6] H. L. Olson and E. G. May, "Electronic sound absorber," Journal of the Acoustical Society of America, Vol. 25, No. 6, 1953, pp1130-1136.
- [7] W. B. Conover, "Recent contributions to transformer audible noise control,"AIEE Transactions, Applications and Industry, Vol. 74, Part D, 1955, pp. 77-86.
- [8] A. H. von Flotow, "An Overview of possible and Not-So-Possible Tasks for Active Control of Sound and Vibration," Proceedings of the AHS/RaeS Technical Specialists Meeting on Rotorcraft Acoustics and Rotor Fluid Dynamics. Valley Forge, PA October 1991.
- [9] R. Gueler, A. H. von Flotow and D. W. Vos, "The Need for Passive Damping in Feedback Controlled Flexible Structures." AIAA Journal of Guidance, Control and Dynamics, Vol. 16(4), pp.662-667, 1993.
- U. Emborg, "Application of Active Noise Control in Saab 340 and Saab 2000,"
 Proceedings of the Nordic Conference on Vehicle and Machinery Vibrations, Stockholm, Sweden, September 1994.
- [11] C.R. Fuller and A.H. von Flotow, "Active Control of Sound and Vibration," IEEE, pp. 9-19, 1995.
- [12] D. C. Apps, "Automobile Noise," Chapter 31 of the handbook of Noise Control, Harris, C.M. ed., McGraw-Hill, New York, 1957.

- [13] H. Nakamura, S. Sato, J. and Sakagami, "On Cavity Resonance of a Car Room and its abatement," SAE International Congress, Detroit, Michigan, January 1961, SAE preprint 298A.
- [14] J. A. Wolf, Jr and D. J. Nefske, "NASTRAN Modeling and Analysis of rigid and Flexible Walled Acoustic Cavities," pp. 615-631 in "NASTRAN: Users' Experiences," National Aeronautics and space Administration Technical Memorandum X-3278, Washington D.C., September 1975.
- [15] J. A. Wolf, Jr, D. J. Nefske and L. J. Howell, "Structural-Acoustic Finite Element Analysis of the Automobile Passenger Compartment," Transaction of the SAE paper No 760184, 1976.
- [16] D. J. Nefske and L. J. Howell, "Automobile Interior Noise Reduction Using Finite Element Methods," Transaction of the SAE paper No 780365, 1978.
- [17] L. J. Oswald, "Reduction of diesel engine noise inside a passenger compartments using active, adaptive noise control," Proceedings of Internoise '84, pp.483-488, 1984
- [18] P. A. Nelson, A. R. D. Curtis, S. J. Elliott and A. J. Bullmore, "The active minimization of harmonic enclosed sound fields, Part I: Theory," Journal of Sound and Vibration, Vol. 117, No 1, pp.1-13, 1987.
- [19] A. J. Bullmore, P. A. Nelson, A. R. D. Curtis and S. J. Elliott, "The active minimization of harmonic enclosed sound fields, Part II: Computer Simulation," Journal of Sound and Vibration, Vol. 117, No 1, pp.15-33, 1987.
- [20] S. J. Elliott, A. R. D. Curtis, A. J. Bullmore and P. A. Nelson, "The active minimization of harmonic enclosed sound fields, Part III: Experimental verifications," Journal of Sound and Vibration, Vol. 117, No 1, pp.35-58, 1987.
- [21] S. J. Elliott, I. M. Stothers, P. A. Nelson, A. M. McDonald, D.C. Quinn and T. Saunders, "The active control, of engine noise inside cars," Internoise '88, pp. 987-990, 1988.
- [22] A. M. Mc Donald et al, "Adaptive noise control of automobile interior noise,"I.Mech.E. Conference on Vehicle Noise, C353, 1988.

- [23] S. J. Elliott, P. A. Nelson, T. Sutton, A. M. McDonald, D.C. Quinn, I. M. Stothers and I. Moore, "The active control of low frequency engine and road noise inside automotive interiors," Active Noise and Vibration, ASME Winter Annual Meeting, ASME Publication No NCA-Vol. 8, pp.125-129, 1990.
- [24] S. Hasegawa, T. Tabata, A. Kinoshita and h. Hyodo, "The development of an active noise control system for automobiles," Society of Automotive Engineers Technical paper 922086, 1992.
- [25] M. Heckl, "Tire noise generation," Wear 113, pp. 157-170, 1986.
- [26] C. J. Dodds and J. D. Robson, "The description of road surface roughness," Journal of Sound and Vibration 31, pp. 175-183, 1973.
- [27] T. J. Roggenkamp, M. S. Kompella and R. J. bernhard, "Development of Experimentally Based Structural/Acoustic Automobile Tire Noise Models," Proceedings of Noise-Con 94, pp. 111-116, 1994.
- [28] W. Dehandshutter, P. Sas and C. Bao, "Active Acoustic and Structural Acoustic Control of Car Cabin Noise-Experimental Study on a Scale Model," Proceedings of Noise-Con 94, pp. 409-414, 1994.
- [29] T. J. Sutton, S. J. Elliott and A. M. McDonald, "The Active Control of Road Noise inside Vehicles," Noise Control Engineering Journal, Vol. 42, No 4, pp. 137-147, 1994.
- [30] W. Brent Ferren and R. J. Bernhard, "Active Control of Simulated Road Noise," Society of Automotive Engineers Proc. 1991 Noise and Vibration Conference, pp. 69-82, 1991.
- [31] C. M. Heatwole and R. J. Bernhard, "Prediction of Multiple-Input Active Control of Road Noise in Automobile interiors," Proceedings of Noise-Con 94, pp. 367-372, 1994.
- [32] K. Wyckaert, W. Dehandshutter and G-L. Banfo, "Active Vibration Control of Rolling Noise in a Passenger Car; Performance Evaluation of actuator and feedback Sensor Configuration," Proc. of Active 95, Newport Beach, California, 1995.
- [33] R. J. Bernhard, "Active Control of Road Noise inside Automobiles," Proc. of Active 95, Newport Beach, California, 1995.

- [34] W. Dehandshutter, R. van Cauter and p. Sas, "Active Control of Simulated Structure Borne Road Noise using Force Actuators," Proc. of SAE Conference on Noise and Vibration, pp. 737-745, 1995.
- [35] W. Dehandshutter, R. van Cauter and p. Sas, "Active Structural Acoustic Control of Structure Borne Road Noise: Theory, simulations and experiments," Proc. of Active 95, Newport Beach, California, pp. 735-746, 1995.
- [36] W. Dehandshutter and P. Sas, "Active Control of Structure-Borne road Noise Using Vibrations Actuators," Journal of Vibration and Acoustics, Vol. 120, pp. 517-523, April 1998.
- [37] C. M. Heatwole, X. Dian and R. J. Bernhard, "Determination of the Number of Input Transducers required for Active Control of Road Noise Inside Automobiles," Proceedings of Noise-Con 93, pp. 207-212, 1993.
- [38] M. Akiho, "Virtual Reference for Active Road Noise Cancellation in a Vehicle Cabin," Proc. of SAE Conference on Noise and Vibration, pp. 747-752, 1995.
- [39] J. Piraux and B. Nayroles, "A Theoretical model for active noise attenuation in three dimensional space," Proceedings of Internoise '80, pp. 703-706, 1980.
- [40] J. S. Burdess and A. V. Metcalfe, "Active control of forced harmonic vibration in finite degree of freedom structures with negligible natural damping," Journal of Sound and Vibration, pp. 447-459, 1983.
- [41] NIT, Sysnoise Rev. 5.1, User's manual, Leuven 1994.
- [42] Mathworks, Inc., Matlab Signal Processing Manual, Prentice Hall, Inc., 1995.
- [43] D. E. Goldberg, Genetic Algorithms in Search, Optimization and Machine Learning, Reading, MA; Addison-Wesley, 1989.
- [44] J. H. Holland, Adaptation in natural and artificial systems. Ann Arbor: The University of Michigan Press, 1975.
- [45] T. Bäck, and H. Schwefel, "An overview of evolutionary algorithms for parameter optimization," Evolutionary computation, Vol. 1,No 1, 1993, pp. 1-23.
- [46] T. Bäck, *Evolutionary algorithms in theory and practice*, Oxford: Oxford University Press, 1996.

- [47] D. C. Zimmerman, "A Darwinian approach to the actuator number and placement problem with non-negligible actuator mass," mechanical System and Signal processing, Vol. 7, No 4, pp. 363-374, 1993.
- [48] L. Yao, W. A. Sethares, and D. C. Kammer, "Sensor placement for on-orbit modal identification via genetic algorithm," AIAA Journal, Vol. 31, No 10, pp. 1922-1927, 1993.
- [49] S. S. Rao, T. Pan and V. B. Venkayya, "Optimal placement of actuators in actively controlled structures using genetic algorithms," AIAA, Vol. 29, No 6, pp.942-943, 1991.
- [50] B. Widrow and S. D. Stearns, *Adaptive Signal Processing*, Prentice-Hall, Englewood Cliffs, NJ, 1985.
- [51] S. J. Elliott, I. M. Stothers and P. A. Nelson, A multiple Error LMS Algorithm and its Application to the Active Control of Sound and Vibration," IEEE Trans. Acoustic Speech Signal Process, ASSP-35 (10), pp. 1423-1434, 1987.
- [52] Julien Maillard, 'Advanced time Domain Sensing for Active Structural Acoustic Control,' Doctor of Philosophy Dissertation, Department of Mechanical Engineering, VPI & SU, 1997.
- [53] SDRC, I-deas Master Series Student guide, 1994.
- [54] Frank Fahy, *Sound and Structural Vibration: radiation, transmission and response*, London: Academic Press 1985, pp275-285.
- [55] Brody D. Johnson, 'Control of broadband acoustic radiation from structures using a piezoelectric double-amplifier active-skin' Master of Sciences Thesis, Department of Mechanical Engineering, VPI & SU, 1997.
- [56] Ph. Gatignol and P. Lanceleur, *Acoustique Physique*, Polycopie du cours PS 05, Universite de Technologie de Compiegne, 1996.