

**List of Publications on Machining Research**  
**By**  
**John S. Stewart**

1. Stewart, J.S., 1970, "*Sound power and directivity characteristics of a proposed standard noise source,*" Center for Acoustical Studies, Internal Report, June 4, 1970.
2. Stewart, J.S., and F.D. Hart, 1971, "*Predicting noise levels in the industrial environment,*" Proceedings, 1971 IEEE Textile Industry Technical Conference, Charlotte, NC
3. Stewart, J.S., and F.D. Hart, 1971, "*Noise level prediction for simple and complex sources in the industrial environment,*" Proceedings, IEEE Annual Meeting, Cleveland, OH.
4. Stewart, J.S., 1971, "*Status of noise control for industrial wood planers,*" Center for Acoustical Studies, Internal Report Nov. 1971, Prepared for Newman Machine Co. Inc.
5. Stewart, J.S., and F.D. Hart, 1972, "*Analysis and control of industrial wood planer noise*", Sound and Vibration Journal, March 1972.
6. Stewart, J.S., 1972, "*Noise, enclosures and the woodworking industry,*" National Hardwood Magazine, May 1972.
7. Stewart, J.S., 1972, "*How to build enclosures for noise control in woodworking,*" Furniture Design and Manufacturing, May 1972. Reprinted in Meiho International Woodworking Survey, Japan, 1973.
8. Stewart, J.S., 1972, "*Comments on a test code for woodworking machinery noise,*" National Hardwood Magazine, August, 1972.
9. Stewart, J.S., and F.D. Hart, 1972, "*A test code for evaluating the noise emission of woodworking machinery,*" Prepared for the Woodworking Machinery Manufacturers of America, August, 1972.
10. Stewart, J.S., 1972, "*A theoretical and experimental study of wood planer noise and its control,*" Doctoral thesis, North Carolina State University, Raleigh, NC August 1972, Copyright 1972, University Microfilms, Ann Arbor, Michigan.
11. Stewart, J.S., and F.D. Hart, 1973, "*Workpiece vibration control in wood planers,*" American Society of Mechanical Engineers, Publication 73-DET-79, June, 1973.

12. Stewart, J.S., 1973, "*A noise control package for an industrial wood planer,*" Woodworking and Furniture Digest, March 1973.
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16. Stewart, J.S., 1974, "*Noise abatement practices,*" Woodworking and Furniture Digest, November, 1974.
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18. Stewart, J.S. and F.D. Hart, 1976, "*Control of industrial wood planer noise through improved cutterhead design,*" Noise Control Engineering, Volume 7, No. 1.
19. Stewart, J.S. F. D. Hart, and T.H. Hodgson, 1976, "*Woodworking machinery noise research, development, and demonstration,*", Proceedings of the EPA-University Conference on Industry Noise Control, Purdue University, West Lafayette, IN, October 1976.
20. Stewart, J.S. and F.D. Hart, 1977, "*Noise control technology for selected woodworking machinery,*" Final report to the National Institute of Occupational Safety and Health-Grant No. 0H00417-02. January 1977.
21. Stewart, J.S., 1977, "*Woodworking machinery noise control: A practical approach,*" Furniture Production Magazine, April 1977.
22. Stewart, J.S., 1978, "*A design guide for circular saw noise control,*" Contract Report for the Southern Furniture Manufacturers Association, February 1978.
23. Stewart, J.S., 1978, "*An investigation of the aerodynamic noise generation mechanism of circular saw blades,*" Noise Control Engineering, Volume 11, No. 1, Jul-Aug 1978.

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29. Stewart, J.S., and F.D. Hart, 1981, "*Noise control technology demonstration for the furniture industry,*" Proceedings of Noise-Con '81, North Carolina State University, Raleigh, NC, June 1981.
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31. Stewart, J.S., 1982, "*The past ten years of noise control in the woodworking industry,*" Proceedings of Inter-Noise '82, San Francisco, CA, 1982.
32. Stewart, J.S., 1983, "*Aluminum extrusion sawing noise reduction program,*" First Report to the Aluminum Association and the Aluminum Extruders Council., January, 1983.
33. Stewart, J.S., J.A. Bailey and A.E. Bayoumi, 1983, "*Comparison of the wear resistance of various grades of cemented carbides that may find application in wood machining,*" International Journal of Wear, Volume 89, 1983.
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41. Stewart, J.S., 1989, "*Noise control for circular saw blades*," Proceedings of the First International Conference on Sawing Technology - Saw Tech '89, Wood Machining Institute, Berkeley, CA October 1989.
42. Stewart, J.S., 1990, "*Proper balancing techniques for woodworking cutting tools*," Proceedings of the First International Symposium on Tooling for the Wood Industry, North Carolina State University, Raleigh, NC, July 1990.
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44. Stewart, J.S., 1991, "*Analysis of CNC router spindle vibration*," Modern Woodworking, March 1991.
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47. Kato, C., J.A. Bailey, J.S. Stewart, T.Arai, and Y.Sugimoto, 1994, "*The wear characteristics of a woodworking knife with a vanadium carbide coating only on the back surface II,*" Mokusai Gakkaishi, Vol. 40, No. 12, P.1317-1326, 1994.
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52. Kato, C., J.Y. Sheikh-Ahmad, J.A. Bailey, and J.S. Stewart, 1995, "*The optimum thickness of chromium coating on the clearance face of the tool in the milling of longleaf pine,*" Proceedings of the 12th International Wood Machining Seminar, Kyoto, Japan, pp. 81-91, October, 1995.
53. Sheikh-Ahmad, J.Y., J.S. Stewart, and H. Feld, 2003, "*Failure characteristics of diamond-coated carbides in machining wood-based composites,*" Wear Vol.(255):1433-1437.
54. Sheikh-Ahmad, J.Y., C. M. Lewandowski, J.A.Bailey, and J.S. Stewart, 2003, "*Experimental and numerical method for determining temperature distribution in a wood cutting tool,*" Experimental Heat Transfer Vol. (16):255-271.