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FIRE RESEARCH PUBLICATIONS, 1979

Nora H. Jason

Center for Fire Research
National Engineering Laboratory
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Final Report

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"Fire Research Publications, 1979" is a supplement to the previous editions:

1969-72	NBSIR 73-246	NTIS Order No. COM-74-10989
1973	NBSIR 74-511	COM-74-11448
1974	NBSIR 75-736	COM-75-11018
1975	NBSIR 76-1120	PB-257837
1976	NBSIR 77-1277	PB-269965
1977	NBSIR 78-1504	PB-284462
1978	NBSIR 79-1745	PB-295395

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I. Journal Articles and Conference Proceedings

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II. National Bureau of Standards Publications

A. National Bureau of Standards Interagency Reports

- NBSIR 78-1580 Peacock, R. D. and Vaishnav, M. P. Flammability Testing of Solids Under the Federal Hazardous Substances Act. April 1980. 91 p. NTIS Order No. PB80-179047.
- NBSIR 78-1586 Peacock, R. D. Fire Safety Guidelines for Vehicles in a Downtown People Mover System. January 1979. 55 p. NTIS Order No. PB-292600.
- NBSIR 79-1588 Lawson, J. R. Interlaboratory Evaluation of the Attic Floor Radiant Panel Test and Smoldering Combustion Test for Cellulose Thermal Insulation. February 1979. Final Report. 34 p. NTIS Order No. PB-293159.
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- NBSIR 79-1700 Lee, B. T. and Parker, W. J. Fire Performance Guidelines for Shipboard Interior Finish. June 1979. Final Report. 21 p. NTIS Order No. PB-297765.
- NBSIR 79-1713 Stahl, F. I. BFIRE/Version 1 - Computer Simulation of Emergency Egress Behavior During Fires: Calibration and Analysis. October 15, 1978. Issued March 1979. 178 p. NTIS Order No. PB-295063.
- NBSIR 79-1714 Lee, B. T. and Parker, W. J. Fire Buildup in Shipboard Compartments - Characterization of Some Vulnerable Spaces and the Status of Prediction Analysis. May 1979. Final Report. 44 p. NTIS Order No. PB-297631.
- NBSIR 79-1720 Budnick, E. K. and Klein, D. P. Mobile Home Fire Studies: Summary and Recommendations. March 1979. 94 p. NTIS Order No. PB-293527.
- NBSIR 79-1731 Peacock, R. D. A Review of Fire Incidents, Model Building Codes, and Standards Related to Wood-Burning Appliances. May 1979. Final Report. 59 p. NTIS Order No. PB-298289.
- NBSIR 79-1738 Francis, R. L. and Saunders, P. B. EVACNET: Prototype Network Optimization Models for Building Evacuation. October 1979. 164 p. NTIS Order No. PB80-113780.
- NBSIR 79-1739 Bukowski, R. W. Tests on the Performance of Automatic Fire Detectors in Health Care Occupancies - A Preliminary Report. April 1979. 28 p. NTIS Order No. PB-297150.

- NBSIR 79-1745 Jason, N. H. Fire Research Publications, 1978. April 1979. Final Report. 16 p. NTIS Order No. PB-295395.
- NBSIR 79-1747 Benjamin, I. A. and Klote, J. H. Stairwell Pressurization Systems. June 1979. Final Report. 32 p. NTIS Order No. PB-297479.
- NBSIR 79-1749 O'Neill, J. G. and Hayes, Jr., W. D. Full-Scale Fire Tests With Automatic Sprinklers in a Patient Room. June 1979. Interim Report. 51 p. NTIS Order No. PB-297417.
- NBSIR 79-1754 Rehm, R. G., Cordes, M. R., Baum, H. R. and Lewis, J. A Linearized Finite Difference Computation of Fluid Heating in an Enclosure. May 3, 1979. Interim Report. 76 p. NTIS Order No. PB-298053.
- NBSIR 79-1755 Meierhoefer, A. W., Braun, E., Krasny, J. F. and Peacock, R. D. Fire Accident Simulations with Apparel Fabrics. June 1979. Final Report. 29 p. NTIS Order No. PB-297815.
- NBSIR 79-1902 Chapman, R. E., Chen, P. T. and Hall, W. G. Economic Aspects of Fire Safety in Health Care Facilities: Guidelines for Cost-Effective Retrofits. November 1979. 117 p. NTIS Order No. PB80-120165.
- NBSIR 79-1906 Archea, J. and Margulis, S. T., Editor. Evacuation of Non-Ambulatory Patients from Hospital and Nursing Home Fires: A Framework for a Model. November 1979. 64 p. NTIS Order No. PB80-119530.
- NBSIR 79-1910 McCaffrey, B. J. Purely Buoyant Diffusion Flames: Some Experimental Results. October 1979. Final Report. 49 p. NTIS Order No. PB80-112113.
- NBSIR 79-1915 Bukowski, R. W. Investigation of the Effects of Heating and Air Conditioning on the Performance of Smoke Detectors in Mobile Homes. October 1979. 179 p. NTIS Order No. PB80-100001.
- NBSIR 79-1916 Martinez, I. M. Third Annual Conference on Fire Research. October 1979. Final Report. 186 p. NTIS Order No. PB80-110240.
- NBSIR 79-1922 Lawson, J. R. An Interlaboratory Evaluation of the ASTM E 84-77a Tunnel Test Modified by the Consumer Product Safety Commission for Cellulosic Loose Fill Insulation. November 1979. Final Report. NTIS Order No. PB80-128317.
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- NBSIR 79-1931 Lee, B. T. and Walton, W. D. Fire Experiments and Flash Point Criteria for Solar Heat Transfer Liquids. November 1979. Final Report. 40 p. NTIS Order No. PB80-140536.
- NBSIR 79-1954 Adams, C. H. and Davis, S. Development of the Flooring Radiant Panel Test as a Standard Test Model. March 1980. Final Report. 55 p. NTIS Order No. PB80-180938.

B. National Bureau of Standards Technical Notes

- NBS TN 985 Ellingwood, B. and Shaver, J. Fire Effects on Reinforced Concrete Members. August 1979. 42 p. GPO Stock No. 003-003-02104-1; \$2.00.
- NBS TN 991 Babrauskas, V. COMPF2--A Program for Calculating Post-Flashover Fire Temperatures. June 1979. 76 p. GPO Stock No. 003-003-02080-0; \$3.50.
- NBS TN 1101 Helzer, S. G., Buchbinder, B., and Offensend, F. L. Decision Analysis of Strategies for Reducing Upholstered Furniture Fire Losses. June 1979. 155 p. GPO Stock No. 003-003-02078-7; \$4.75.
- NBS TN 1103 Babrauskas, V. Full-Scale Burning Behavior of Upholstered Chairs. August 1979. 86 p. GPO Stock No. 003-003-02110-5; \$3.50.
- NBS TN 1108 Peacock, R. D. and Smith, J. M. SPEED2, A Computer Program for the Reduction of Data from Automatic Data Acquisition Systems. September 1979. 153 p. GPO Stock No. 003-003-02112-1; \$4.75.
- NBS TN 1109 Rogers, G. J. and Evans, D. D. Characterization of Electrical Ignition Sources Within Television Receivers. October 1979. 60 p. GPO Stock No. 003-003-02119-9; \$2.50.

C. National Bureau of Standards Special Publications

- NBS SP 540 Sherald, M. A. Fire Research and Safety. Proceedings of the Third Joint Panel Conference of the U.S.-Japan Cooperative Program in Natural Resources held March 13-17, 1978, at the National Bureau of Standards, Gaithersburg, MD. Issued November 1979. GPO Stock No. 003-003-02141-5; \$8.00.

D. National Bureau of Standards Dimensions

- Heyman, M. Fighting Fire with Fire Research - Finding Tools for Trimming Fire Losses. Dimensions/NBS, Vol. 63, No. 10, 2-7, October 1979. GPO; \$1.10, domestic; \$1.40 foreign.
- Heyman, M. Fire Safety for Health Care Facilities: Cutting Costs without Cutting Corners. Dimensions/NBS, Vol. 63, No. 7, 4-17, July 1979. GPO; \$1.10 domestic; \$1.40 foreign.
- Lieberman, S. Fire Safety Tips for Wood Burning Appliances - Proper Installation, Operation and Maintenance. NBS Dimensions/NBS, Vol. 63, No. 11, 18-22, November 1979. GPO; \$1.10 domestic; \$1.40 foreign.

III. Contract and Grant Reports

- NBS-GCR-79-157 Vreeland, R. C. and Waller, M. B. The Psychology of Firesetting: A Review and Appraisal. December 1978. 38 p. NTIS Order No. PB-290821.
- NBS-GCR-79-159 Bryan, J. L. An Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Kensington Gardens Nursing Home on January 1, 1978. June 30, 1978. Issued January 1979. 67 p. PB-290892.
- NBS-GCR-79-160 Rickers, H. C. Reliability Modeling of Smoke Detectors. Final Report. November 1978. Issued March 1979. 108 p. NTIS Order No. PB-295176.
- NBS-GCR-79-161 Rickers, H. C. Residential Smoke Detector Reliability Handbook. Section 1: Parts Stress Analysis. Final Report. November 1978. Issued February 1979. 224 p. NTIS Order No. PB-295178.
- NBS-GCR-79-162 Rickers, H. C. Residential Smoke Detector Reliability Handbook. Section 2: System Reliability Evaluation Techniques. Section 3: Component Screening/Test Techniques. Final Report. November 1978. Issued March 1979. 95 p. NTIS Order No. PB-295177.
- NBS-GCR-79-163 Watts, J. Theoretical Rationalization of a Goal-Oriented Systems Approach to Building Fire Safety. February 28, 1979. 263 p. NTIS Order No. PB-294684.
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