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INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS
1961 THROUGH 1976

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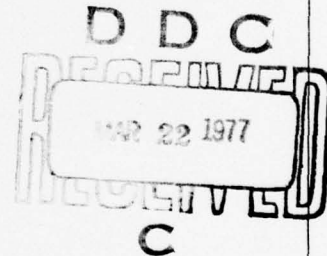
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16. Abstract An index to Office of Aviation Medicine Reports (1964-1976) and Civil Aeromedical Research Institute Reports (1961-1963) is presented as a reference for those engaged in aviation medicine and related activities. It provides a listing of all FAA aviation medicine reports published from 1961 through 1976 by year, number, author, title, and subject.		
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1969

- 69-1 Melton, C. E., Jr., and Wicks, M.: Binocular fusion time in sleep-deprived subjects. AD688426
- 69-2 Siegel, P. V., and Mohler, S. R.: Medical factors in U.S. general aviation accidents. AD689740
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1970

- 70-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1969. AD714027
- 70-2 Brecher, M. H., and Brecher, G. A.: Quantitative evaluation of optically induced disorientation. AD709329
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1971

- 71-1 Tobias, J. V.: Noise audiometry. AD723464
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1972

- 72-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1971. AD742607
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- 72-35 Collins, W. E., and Iampietro, P. F.: Simulated sonic booms and sleep: Effects of repeated booms of 1.0 psf. AD762988

1973

- 73-1 Braden, G. E., Reed, W., and Swearingen, J. J.: Application of commercial aircraft accident investigation techniques to a railroad derailment. AD764188
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- 74-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1973. AD779553
- 74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B.: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558
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- 74-10 Chiles, W. D., and West, G.: Multiple-task performance as a predictor of the potential of air traffic controller trainees: A followup study. ADA002920
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- 74-12 Smith, R. C.: A realistic view of the people in air traffic control. ADA006789

1975

- 75-1 Jones, K. N., Steen, J. A., and Collins, W. E.: Predictive validities of several clinical color vision tests for aviation signal light gun performance. ADA006792
- 75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A.: Anthropometry of airline stewardesses. ADA012965
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- 75-5 Ryan, L. C., Gerathewohl, S. J., Mohler, S. R., and Booze, C. F., Jr.: To see or not to see: Visual acuity of pilots involved in midair collisions. ADA016277
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- 75-7 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Saldivar, J. T., Hoffmann, S. M., and Fowler, P. R.: Stress in air traffic controllers: Comparison of two air route traffic control centers on different shift rotation patterns. ADA020679
- 75-8 Thackray, R. I., Bailey, J. P., and Touchstone, R. M.: Physiological, subjective, and performance correlates of reported boredom and monotony while performing a simulated radar control task. ADA025426
- 75-9 Smith, R. C., Rana, B., and Taylor, D. K.: An evaluation of the effectiveness of the FAA Management Training School.

- 75-10 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Winget, C. M., Funkhouser, G. E., Burr, M. J., Vaughan, J. A., and Jennings, A. E.: The effects of a 12-hour shift in the wake-sleep cycle on the physiological and biochemical responses and on multiple-task performance. ADA021518
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- 75-14 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Vaughan, J. A., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and West, G.: The effects of dextroamphetamine on physiological responses and complex performance during sleep loss. ADA021520

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- 76-1 Jennings, A. E., and Chiles, W. D.: An investigation of time-sharing ability as a factor in complex performance.
- 76-2 Smith, R. C., and Melton, C. E.: Effects of ground trainer use on the psychological and physiological states of students in private pilot training. ADA024704
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