

National Aeronautics and Space Administration



# Sonic Boom Research at Armstrong

*Supersonic Fundamental Aeronautics Project*

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Research Pilot

Armstrong Flight Research Center



Armstrong Flight Research Center

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# Sonic Boom Research

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Third Conference on Sonic Boom Research Ira R. Schwartz, 1971 Prediction methods for sonic boom generation and propagation with overpressure minimization in supersonic transport design and operation      **Sonic-boom Research** Harvey H. Hubbard, 1986      Sonic Boom Research A. R. Seebass, 1967      **Sonic Boom Research** A. Richard Seebass, 1967

*Sonic Booms Resulting from Extremely Low-altitude Supersonic Flight: Measurements and Observations on Houses, Livestock and People* C. W. Nixon, H. K. Hille, H. C. Sommer, Elizabeth Guild, 1968 Sonic booms generated by F 4C aircraft flying low level terrain following profiles during Joint Task Force II operations near Tonopah Nevada were recorded under and near the flight tracks and responses of structures animals and people were observed Recorded overpressures up to 144 psf were analyzed correlated with available aircraft operations data and compared with data from different aircraft flying similar profiles Observations of structures animals and people were correlated with the measured overpressures Results include acquisition of near field recordings of overpressures generated by the F 4C the finding that some window glass fragments were propelled a short distance rather than falling directly below the window an instance in which the measured overpressure of a sonic boom 1 mile to the side of the track far exceeded the predicted value the finding that livestock undetermined prior exposure to acoustic stimuli in this situation did not respond adversely to the sonic booms confirmation that very intense sonic booms do not harm people directly and the reaffirmation that the selection of site locations for low level supersonic training missions will continue to pose a problem      **Sonic Boom Research** , 1969      SONIC BOOM RESEARCH AND DESIGN CONSIDERATIONS IN THE DEVELOPMENT OF A COMMERCIAL SUPERSONIC TRANSPORT (SST) , 1965 This paper presents a short history of sonic boom research and related operational considerations in the development of a commercial supersonic transport SST The most intensive public reaction research program to date was conducted at Oklahoma City Oklahoma An intensive research program to determine structural reaction to sonic booms was conducted at the White Sands Missile Range These two programs are discussed and a brief summary of the findings of the programs is presented The paper concludes that although much has been learned about the sonic boom phenomena through past flight and research activities additional research and theoretical studies are warranted      Sonic-boom Research: Selected Bibliography with Annotation Harvey H. Hubbard, 1986      *Sonic Boom Research* A.R. Seebass, 1967

**High-Speed Research: Sonic Boom, Volume 1** , 1994      Status of Sonic Boom Methodology and Understanding Christine M. Darden, 1988      *Conference on Sonic Boom Research* , 1968      **Second Conference on Sonic Boom Research** Ira R. Schwartz, 1968 Proceedings of a conference on sonic boom reduction in supersonic transport flight Topics include shock wave propagation and refraction prediction methods for acoustic attenuation and aerodynamic engineering aspects      Third Conference on Sonic Boom Research Ira R. Schwartz, 1971      **Effects of Sonic Boom on People** Henning E. von Gierke, 1966      High-speed Research--1994 Sonic Boom Workshop David A. McCurdy, 1994      1995 NASA

*High-speed Research Program Sonic Boom Workshop* Daniel G. Baize,1996      ... *Conference on Sonic Boom Research* ,1968  
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## **Table of Contents Sonic Boom Research**

1. Understanding the eBook Sonic Boom Research
  - The Rise of Digital Reading Sonic Boom Research
  - Advantages of eBooks Over Traditional Books
2. Identifying Sonic Boom Research
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sonic Boom Research
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sonic Boom Research
  - Personalized Recommendations
  - Sonic Boom Research User Reviews and Ratings
  - Sonic Boom Research and Bestseller Lists
5. Accessing Sonic Boom Research Free and Paid eBooks
  - Sonic Boom Research Public Domain eBooks
  - Sonic Boom Research eBook Subscription Services
  - Sonic Boom Research Budget-Friendly Options

6. Navigating Sonic Boom Research eBook Formats
  - ePub, PDF, MOBI, and More
  - Sonic Boom Research Compatibility with Devices
  - Sonic Boom Research Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sonic Boom Research
  - Highlighting and Note-Taking Sonic Boom Research
  - Interactive Elements Sonic Boom Research
8. Staying Engaged with Sonic Boom Research
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sonic Boom Research
9. Balancing eBooks and Physical Books Sonic Boom Research
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sonic Boom Research
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sonic Boom Research
  - Setting Reading Goals Sonic Boom Research
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sonic Boom Research
  - Fact-Checking eBook Content of Sonic Boom Research
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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