

SSC-200

**INDEX OF SHIP STRUCTURE COMMITTEE
PUBLICATIONS**

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SHIP STRUCTURE COMMITTEE

INDEX OF SHIP STRUCTURE COMMITTEE PUBLICATIONS

This report is an index to all publications of the Ship Structure Committee in their SSC series from the time of its formation in 1946 to December 1968.

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- SSC-1, *Cleavage Fracture of Ship Plate: Hatch Corner Tests* by E. P. DeGarmo, J. L. Meriam, R. C. Grassi, J. W. Harman, and M. P. O'Brien. July 24, 1946. AD 636741
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- SSC-146, Not to be published.
- SSC-147, *A Study of Brittle Fracture Initiation in Mild Steel* by F. W. Barton and W. J. Hall. July 15, 1963. AD 419617

- SSC-148, *Brittle Fracture Propagation Studies* by F. F. Videon, F. W. Barton and W. J. Hall. August 20, 1963. AD 424985
- SSC-149, *Summary of Some Studies of Brittle-Fracture Propagation* by W. J. Hall and F. W. Barton. September 4, 1963. AD 424986
- SSC-150, *An Unmanned System for Recording Stresses and Accelerations on Ships at Sea* by D. J. Fritch and F. C. Bailey. June 3, 1963. AD 635079
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- SSC-156, *An Investigation of Midship Bending Moments Experienced in Extreme Regular Waves by Models of a Tanker and a Destroyer* by J. F. Dalzell. February 3, 1964. AD 432182
- SSC-157, *Summary of Investigation of Midship Bending Moments Experienced by Models in Extreme Regular Waves* by J. F. Dalzell. December 18, 1963. AD 429801
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- SSC-176, *Biennial Report of the Ship Structure Committee.* June 1966. AD 641333
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- SSC-181, *Results from Full-Scale Measurements of Midship Bending Stresses on Two Dry-Cargo Ships--Report #2* by D. J. Fritch, F. C. Bailey, J. W. Wheaton. March 1967. AD 650239
- SSC-182, *Twenty Years of Research Under the Ship Structure Committee* by A. R. Lytle, S. R. Heller, R. Nielsen, Jr., and John Vasta. December 1967. AD 663677
- SSC-183, *Metallurgical Structure and the Brittle Behaviour of Steel* by Morris Cohen. May 1968. AD 670574
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- SSC-186, *On the Effect of Ship Stiffness Upon the Structural Response of a Cargo Ship to an Impulsive Load* by Manley St. Denis. September 1968. AD 675639

- SSC-187, *Biennial Report of Ship Structure Committee*, June 1968. AD 675022
- SSC-188, *Effect Of Repeated Loads On The Low Temperature Fracture Behavior Of Notched And Welded Plates*. W. H. Munse, J. P. Cannon and J. F. Kiefner. October 1968. AD 676722
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BOOKS PUBLISHED COVERING RESEARCH UNDER SSC

Residual Stresses in Metals and Metal Construction edited by William R. Osgood. Reinhold Publishing Company, 1954.

Brittle Behavior of Engineering Structures by Earl R. Parker. John Wiley & Sons, Inc., 1957.

Fracture, edited by B. L. Averbach, D. K. Felbeck, G. T. Hahn, and D. A. Thomas. John Wiley & Sons, Inc., 1959.

Theory of Seakeeping by Professor B. V. Korvin-Kroukovsky. The Society of Naval Architects and Marine Engineers, 1961.

A Guide for the Analysis of Ship Structures edited by Thein Wah. Office of Technical Services, Department of Commerce, 1962.

A Guide to Sound Ship Structures by A. M. D'Arcangelo, Cornell Maritime Press, Inc., 1964.