

Box List: Howard Osborn Papers, 1951-1992
Mathematics, UIUC
ID: 15/14/43

Arrangement:

Series 1: Subject Files, 1951-1990
Series 2: Publications, 1954-1992

Complete Finding Aid:

<https://archon.library.illinois.edu/index.php?p=collections/controlcard&id=11839&q=Osborn>

Box list created: 2020-02-13

Repository:

University Archives
University of Illinois at Urbana-Champaign
<https://archives.library.illinois.edu/>

Series 1: Subject Files, 1951-1990

This series contains course materials, lecture notes, research notes, and research-related correspondence. Included also are Osborn's graduate school notes and a concert flyer from 1976. This series is arranged alphabetically, with his CV listed first.

Box 1:

1. Curriculum Vitae, 1986
2. A compilation of research notes, reading notes, lecture notes, article drafts (1 of 6), 1953-2002
3. A compilation of research notes, reading notes, lecture notes, article drafts (2 of 6), 1953-2002
4. A compilation of research notes, reading notes, lecture notes, article drafts (3 of 6), 1953-2002
5. A compilation of research notes, reading notes, lecture notes, article drafts (4 of 6), 1953-2002
6. A compilation of research notes, reading notes, lecture notes, article drafts (5 of 6), 1953-2002
7. A compilation of research notes, reading notes, lecture notes, article drafts (6 of 6), 1953-2002
8. An Evening of Violin and Piano Sonatas – concert flyer, 1976
9. Analytic Theory of Numbers: Lectures by Professor J. G. Van der Corput. Notes by H. Osborn and M. Vitousek, Stanford University, 1950-1951
10. Characteristic Classes. Notes by S. Yardley, 1967-1968
11. Conservation Laws II, 1960-1962
12. Course Materials: Algebraic Topology – I, Mathematics 431, Spring 1990
13. Course Materials: Algebraic Topology – II, Mathematics 432, Fall 1990
14. Course Materials: Cartier Schemas Lecture Notes, 1962-1963
15. Course Materials: Mathematics 342
16. Graduate School Class Notes: Math 316: Modern Algebra, ca. 1950s
17. Lie Groups I, Hochschild, 1955-1956
18. Lie Groups II, Hochschild, 1956
19. Matterhorn Sketches, 1951-1952
20. Supports in Semi-Simple Rings – correspondence and notes, 1962
21. Varian Associates – correspondence, notes, 1955-1956

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Series 2: Publications, 1954-1992

This series contains Osborn's unpublished papers and some of his articles and books. This series is arranged chronologically.

Box 1:

Unpublished Drafts of Papers

22. A Filtering Theorem for Weak Signals, 1956
23. Homomorphisms Relating Modules of Bilinear Forms - I, 1956
24. The Symmetric and Alternative Forms Generated by an Endomorphism, 1957
25. A Class of Bilinear Forms, 1957
26. A Remark on Laurent Expansions – draft of an article published in *The American Mathematical Monthly* 65/1 (1958)
27. Exterior Calculus, ca. 1960s
28. Structures Différentiables, 1964
29. Intrinsic Characterizations of Tangent Spaces – draft of an article published in *Proceedings of the American Mathematical Society* 16/4 (1965)

Box 2:

1. Linear Algebra and Geometry, 1970
2. Lie Groups, 1976
3. Localization of the Signature, 1985
4. Vector Bundles, Vol. 2, 1988
5. Vector Bundles, Vol. 3, ca. 1988
6. Twisted Characteristic Classes, 1991
7. Universal Twisted Integer Cohomology, 1992
8. Cantilevers, undated
9. The Continuous Gold-Mining Problem, undated
10. Differentiable Manifolds, undated
11. Differential Geometry in PL, undated
12. Fun and Games with Derivations, undated
13. Gauss-Bonnet in DIFF and in PL, undated
14. Minimal Models and Rational Cobordism Rings, undated
15. Novikov-Wall Signature Additivity, undated
16. Novikov-Wall Signature Theorem, undated
17. Obstruction Classes for Odd-Rank Bundles, undated
18. Obstruction Classes for Odd-Rank Bundles and Obstruction Classes for Even-Rank Bundles, undated
19. The Origins of Some Partial Differential Equation, undated
20. Scissors-and-Glue Construction of Cobordism Rings, undated
21. Scissors-and-Glue Rings, undated
22. Separation of Variables, undated
23. Signature Localization, undated
24. Some Orthogonal Sets of Functions, undated

Published Works

25. *The Existence of Conservation Laws*. Applied Mathematics and Statistics Laboratory Stanford University. Stanford: Stanford University, 1954
26. On the Convergence of Discrete Stochastic Decision Processes to Their Continuous Analogues – II. US Air Force Project Rand, 1955

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Published Works

27. The Problem of Continuous Programs. The Rand Corporation, 1955
28. Supports in Semi-Simple Rings. US Air Force Project Rand, 1962
29. Axioms for the Euler Characteristic. In *Lecture Notes Prepared in Connection with the Summer Institute on Differential Geometry*. Stanford: Stanford University, 1973
30. The Chern-Weil Theorem. In *Lecture Notes Prepared in Connection with the Summer Institute on Differential Geometry*. Stanford: Stanford University, 1973

Processing Note: Duplicates were weeded. Archives staff imposed an arrangement order. Added folder titles are indicated by [] on the folders. Processed by Stefan Peychev under the supervision of Susanne Belovari, spring 2020.