

---

Journal of the  
SURVEYING AND MAPPING DIVISION  
Proceedings of the American Society of Civil Engineers

---

SURVEYING AND MAPPING DIVISION  
EXECUTIVE COMMITTEE

B. Austin Barry, Chairman; Gerald H. Pesman, Vice-Chairman;  
Oliver R. Bosso; Lewis A. Dickerson; Franklin R. Gossett, Secretary  
C. Merrill Barber, Board Contact Member

COMMITTEE ON PUBLICATIONS  
Kenneth S. Curtis, Chairman; Arthur J. McNair

CONTENTS

November, 1962

Papers

|   | Page |
|---|------|
| Civil Requirements for Topographic Maps<br>by Robert H. Lyddan . . . . .                  | 1    |
| Military Requirements for Topographic Maps<br>by Frederick O. Diercks . . . . .           | 7    |
| Large-Scale Mapping of Lake Powell<br>by Clyde D. Gessel and Dwight H. Rutledge . . . . . | 17   |
| Field Control for Antarctic Mapping<br>by William H. Chapman . . . . .                    | 29   |
| (over)  |      |

---

Copyright 1962 by the American Society of Civil Engineers.

The three preceding issues of this Journal are dated July 1960, January 1961, and July 1961.

|   | Page |
|---|------|
| All-Versine Highway Spiral Formulas<br>by G. J. Thornton-Smith. . . . . | 41   |
| Survey Control at Glen Canyon Dam<br>by Howard L. Fink . . . . .        | 51   |

---

DISCUSSION

---

|   |    |
|---|----|
| Self-Checking Method of Computing Curve Elevations,<br>by Charles M. Lamont. (February, 1960. Prior<br>discussion: July, 1960, January, 1961. Discussion closed.)<br>by Charles M. Lamont (closure) . . . . . | 65 |
| Surveys for the Lake Pontchartrain Bridge,<br>by James M. Tuttle. (January, 1961. Prior discussion:<br>July, 1962. Discussion closed.)<br>by James M. Tuttle (closure) . . . . .                              | 67 |