

Spherographical Navigation

By
DIRK BROUWER, F. W. KEATOR,
and **DRURY A. McMILLEN**

THIS book is a manual of instruction on a system of celestial navigation called Spherographical Navigation. While the system is based upon principles which are of considerable antiquity, it is new in the sense of its instrumentation and in its practical application to the solving of the problem of position. Reduced to its simplest terms, the Spherographical System embodies the use of a spherical plotting surface on which a fix of position is obtained by the direct plotting of the altitudes of selected celestial bodies. Practically no calculations are required; and no tables are necessary except the American Air Almanac or the Nautical Almanac. No solution of the spherical triangle is made for the computed altitude based upon either the dead reckoning position or an assumed position.

Aside from the simplification of the solution provided by the method, and the speed with which a solution can be

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FOREWORD BY
CAPTAIN P. V. H. WEEMS



The Spherographical System gives directly and visually **THE LATITUDE AND LONGITUDE** of a server, by the simple plotting of on the Sphere. It is **NOT** one ing the spherical triangle of

**BROUWER
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MACMILLAN

tial navigation which was title "Navegação Acrea." became acquainted with Paulo Observatory, Anton his dissatisfaction with the navigation. The flyer and develop the system in its es- n to the art of navigation ight of the Order of the Government.

ork with Dr. Stuxberg, he to the United States and, alma mater. The President esented his case, asked two rouwer and Keator, to ex- ere impressed by its possi- usefulness would depend he sphere and its auxiliary with which the instruments , they set about testing the ements to the instruments. now being manufactured, e need for a manual to ac-

er of the staff of the Astro- versity since 1928. In 1941 s institution, which has an ork in the precision meas- graphs.

er of Mechanical Engineer- uring. For many years he a number of long-distance gation to students in Yale g Program and elsewhere. ion Outline" published by

