

## Thaumaturgia, or Elucidations of the Marvellous, by an Oxonian S.R. Hole



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### ***Reviews***

*An extremely wonderful pdf with lucid and perfect explanations. I could possibly comprehend every little thing out of this created e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding.*

*(Janie Wilkinson)*

## THAUMATURGIA, OR ELUCIDATIONS OF THE MARVELLOUS, BY AN OXONIAN S.R. HOLE



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 60 pages. Original publisher: Hampton, Va. : National Aeronautics and Space Administration, Langley Research Center ; Springfield, Va. : For sale by the National Technical Information Service, 1989 OCLC Number: (OCoLC)62785439 Subject: Large space structures (Astronautics) -- Design and construction. Excerpt: . . . SECTION 3 DEPLOYABLE STRUCTURAL CONCEPTS As in the preceding section, it is convenient to discuss concepts for the reflecting surface first. 3. 1 REFLECTING SURFACE The requirement that the reflecting surface be solid limits consideration to reflective membranes and panels. Membrane surfaces can be excellent radio-frequency reflectors. Some care must be taken to ensure that the surface conductivity of metalized plastic films is not degraded by cracks in the conductive layer caused by frequent creases. For dish-type surfaces, the membrane requires a transverse pressure loading to create a wrinkle-free surface of the correct shape. No suitable reflector membrane material has low enough in-surface stiffness to enable needed changes in Gaussian curvature without incurring high stresses. Membranes are pliable and can be stowed compactly. The most prevalent approach for providing a reflector surface is to use an assemblage of stiff panels. A variety of shapes have been proposed, ranging from near-hexagonal segments, through ring sectors, to petals. In all cases, the panels butt together to produce the large dish-type reflector. For launch, the panels are folded or interleaved to fit in the launch vehicle. Each panel is considered to be stiff and precise enough to maintain its own shape. Panels can be built in several ways, the chief ones being as a honey-comb sandwich or a monocoque stiffened shell. A novel approach that has been suggested by Composite Optics, Inc. of San Diego utilizes a reflector surface composed of a thin flexible shell of graphite-epoxy...



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