CONTENTS OF VOLUME 22

Page

547. The Lovibond Color System. I. A Spectrophotometric Analysis of the Lovibond Glasses. With a Prefatory Statement by Irwin G. Priest ..... *K. S. Gibson and F. K. Harris* 1

548. Wave-Length Measurements in the Arc and Spark Spectra of Zirconium ..... *C. C. Keiss* 47

549. Wave-Length Measurements in the Arc Spectrum of Scandium *William F. Meggers* 61

550. Application of the Algebraic Aberration Equations to Optical Design ..... *I. C. Gardner* 73

551. Absorption Spectra of Iron, Cobalt, and Nickel. *W. F. Meggers and F. M. Walters, jr.* 205

552. Transmission of Sound Through Building Materials. *V. L. Chrisler* 227

553. Further Radiometric Measurements and Temperature Estimates of the Planet Mars, 1926. *W. W. Coblentz and C. O. Lampland* 237

554. Determination of Sulphur Trioxide in the Presence of Sulphur Dioxide, Together With Some Analyses of Commercial Liquid Sulphur Dioxide ..... *J. R. Eckman* 277

555. A Weight Burette for the Micromeasurement of Liquid Volumes ..... *Martin Shepherd* 287

556. Current Distribution in Supraconductors ..... *F. B. Silsbee* 293

557. A Suggested New Base Point on the Thermometric Scale and the $\alpha \rightleftarrows \beta$ Inversion of Quartz. *Frederick Bates and Francis P. Phelps* 315

558. An Analysis of the Arc and Spark Spectra of Scandium (Sc I and Sc II) ..... *Henry Norris Russell and William F. Meggers* 329

559. A Burette for the Accurate Measurement of Gas Volumes Without Gas Connection to a Compensator. *E. R. Weaver and Martin Shepherd* 375

560. Density and Electrical Properties of the System, Rubber-Sulphur:

Part I. Density of Rubber-Sulphur Compounds. *A. T. McPherson*

Part II. Electrical Properties of Rubber-Sulphur Compounds ..... *H. L. Curtis, A. T. McPherson, and A. H. Scott* 383

561. Cooperative Measurements of Radio Fading in 1925. *J. H. Dellinger, C. B. Jolliffe, and T. Parkinson* 419

562. Density of Hot-Rolled and Heat-Treated Carbon Steels. *H. C. Cross and E. E. Hill* 451

563. Gases in Metals. III. The Determination of Nitrogen in Metals by Fusion in Vacuum. *Louis Jordan and James R. Eckman* 467

564. Absolute Measurement of Capacitance by Maxwell's Method. *Harvey L. Curtis and Charles Moon* 487

Page

565. Thermal Expansion of Beryllium and Aluminum-Beryllium Alloys ..... *Peter Hidnert and W. T. Sweeney* 533
566. Indeterminateness of Electrical Charge ..... *Chester Snow* 547
567. Some Principles Governing the Choice and Utilization of Permanent-Magnet Steels ..... *Raymond L. Sanford* 557
568. Methods, Formulas, and Tables for the Calculation of Antenna Capacity ..... *Frederick W. Grover* 569
569. Generator for Audio Currents of Adjustable Frequency with Piezo-Electric Stabilization ..... *August Hund* 631
570. Thermal Expansion of Alloys of the "Stainless Iron" Type. *Peter Hidnert and W. T. Sweeney* 639
571. Unusual Features in the Microstructure of Ferrite. *Henry S. Rawdon and Torkel Berglund* 649
572. Cause and Removal of Certain Heterogeneities in Glass. *L. W. Tilton, A. N. Finn, and A. Q. Tool* 719