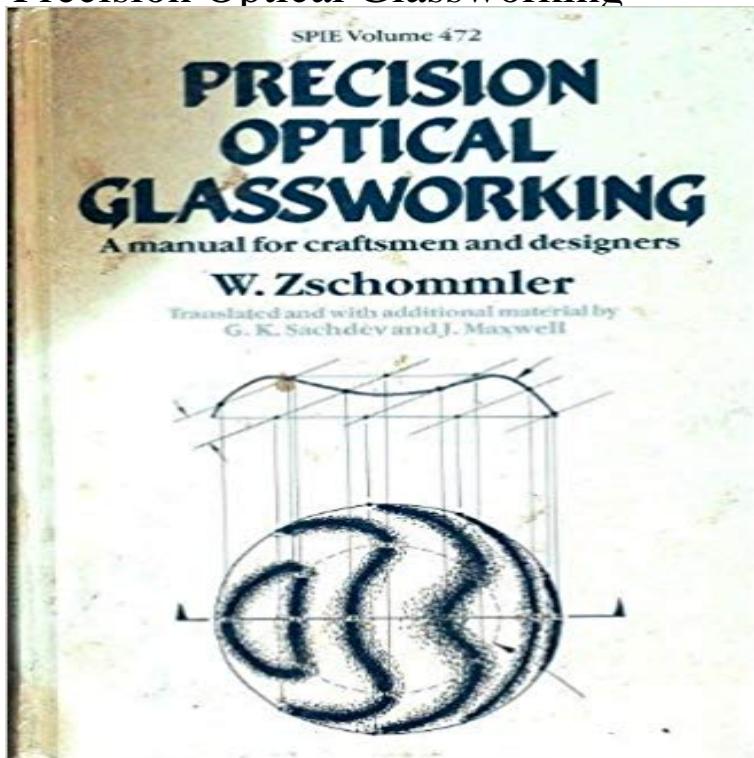


## Precision Optical Glassworking



Part 1 of Precision Optical Glassworking is a revised and updated translation of Willy Zschommler's classic book on optical production engineering, Feinoptik Glasbearbeitung (Werkkunde für den Feinoptiker). This deals systematically with every stage in the manufacture of lenses and prisms for precision optical instruments including aspheric surfaces, roof edge prisms, hyperhemispherical lens components for high-power microscope objectives and many aspects of workshop testing for optical components and complete optical instruments. Part 2 of the book is a completely new introduction to the specification, design and interferometric testing of optical instruments, specially prepared with the needs of the optical technician and practical engineer in mind. The emphasis in this part of the book is on the use of optical equations that lend themselves to modern techniques of microelectronic calculations and on interferometric test methods that are of particular importance for the quality control of precision optical devices. The whole book is profusely illustrated with clear and detailed diagrams which clarify many aspects of optical engineering not previously covered in the literature of the subject. The book is intended for the training and self-education of optical glassworkers and technician engineers, for whom there is a very sparse literature, and often no well defined career structure. It is hoped that this book will contribute to the improvement of the professional knowledge and status of workers in the optical industry and also appeal strongly to all those who use optical instruments and who wish to know more about the practicalities of the fascinating field of optical manufacturing design and quality assessment.

Agradable ruta realizada junto al Bilbao Alpino que parte desde la localidad alavesa de Guinea, en la vertiente Sur de la sierra de Arkamo y que discurre por las cimas de Olvedo, Pelistornes y Cantoblanco.

Desde Guinea el camino es muy evidente, ya que las dos primeras cimas están muy cerca y separadas por un pequeño collado. Su subida es corta y casi directa y está señalizada justo a la salida del pueblo.

Al Olvedo se llega relativamente rápido. A pesar de que las nubes a veces nos impiden apreciar las vistas, el paisaje se intuye precioso.

2017-01-22\_10-36-17

Para pasar del Olvedo al Pelistornes tan sólo tenemos que cruzar el collado y llegaremos en apenas 10 minutos a nuestra segunda cima del día.

2017-01-22\_10-53-02

Una vez coronadas las cimas anteriores hay que continuar la travesía en dirección a la al Cantoblanco, que se asciende tras un durillo cortafuegos.

20170122\_123405

Desde la cima tenemos justo en frente el Montemayor, máxima altura de la vecina sierra de Arkamo.2017-01-22\_13-00-09

Finalmente, iniciamos el descenso hacia la curiosa localidad de Salinas de Añana...

20170122\_142807

...donde podremos completar la ruta con una visita a las propias Salinas.

20170122\_142812

Una ruta de unos 15 kilómetros sin dificultades reseñables. Únicamente se hace necesaria logística de vehículos. De no tener esta facilidad entonces es mejor realizar únicamente la subida al Olvedo y Pelistornes.

Tu voto:

Publicado en Araba, Rutas fáciles | Deja un comentario

Los Retos de 2017

Publicado el 01/24/2017 por 12meses12montes

Bueno, un nuevo año que ha pasado y uno nuevo que acaba de comenzar. 2016 fue un año muy intenso, si bien los retos que nos marcamos en un principio sólo se vieron cumplidos en una tercera parte. No fue un buen año para ellos, ésta vez la alineación de planetas se generó en pocas ocasiones.

Sin embargo, no decaemos. Cogemos el testigo y no vamos a desistir en su intento, por lo que los retos que no conseguimos cumplir en 2016 serán los que tratemos de realizar en 2017, más algunos otros, a ver qué os parecen. Seguir leyendo

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