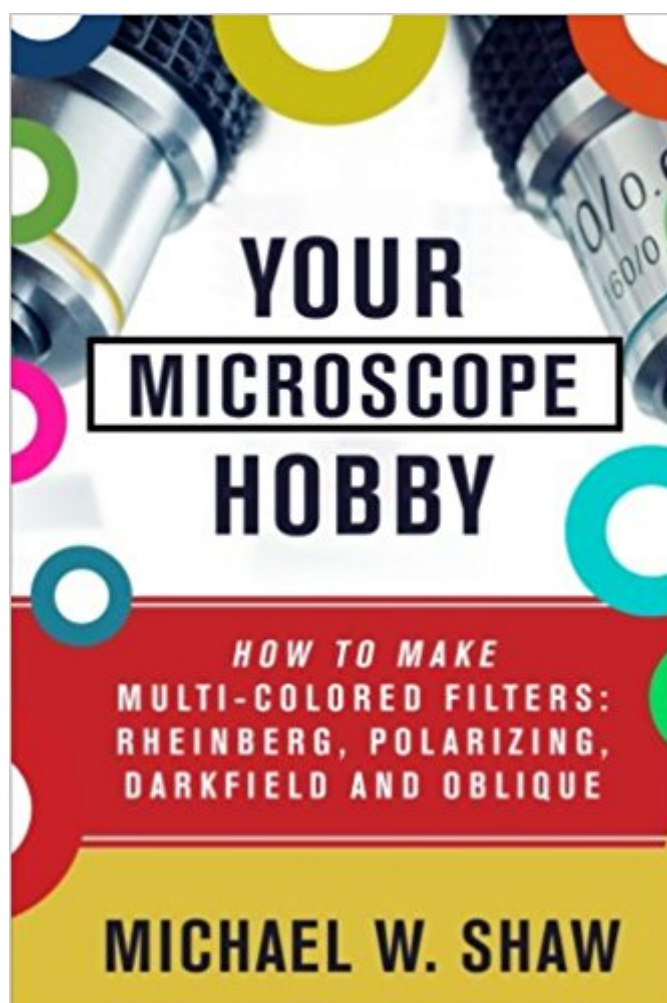


The book was found

# Your Microscope Hobby: How To Make Multi-colored Filters: Rheinberg, Polarizing, Darkfield And Oblique



## Synopsis

For over a decade, the author has made microscope filters for universities around the world, for the Mayo Clinic, for professors, industrial scientists, hospital researchers, doctors and veterinarians on every continent, and for amateurs as well. In addition to the main topic of Rheinberg filters, covered are polarization and oblique filter making, which adds to the repertoire of microscope contrast techniques. The book also lists many resources for products and related references about microscopy. Loaded with over 144 photos and illustrations, included are bonus chapters showing the reader how to make a microscope camera adapter, a nice wooden filter case, and instructions for making a plant press.

## Book Information

Paperback: 254 pages

Publisher: CreateSpace Independent Publishing Platform (April 7, 2015)

Language: English

ISBN-10: 1511421479

ISBN-13: 978-1511421478

Product Dimensions: 6 x 0.6 x 9 inches

Shipping Weight: 15.7 ounces (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars 17 customer reviews

Best Sellers Rank: #1,121,896 in Books (See Top 100 in Books) #86 in Books > Science & Math > Experiments, Instruments & Measurement > Microscopes & Microscopy #13190 in Books > Science & Math > Physics

## Customer Reviews

Sooner or later, anyone who uses a microscope, whether for business or pleasure, will discover Rheinberg illumination which is produced by using Rheinberg Filters. Invented in 1896 by Julius Rheinberg, Rheinberg illumination reveals details and yields striking images which simply can not be produced by any other means. The only problem is that commercially produced filters, if one can find them for their particular make and model of microscope, are prohibitively expensive. The internet hosts many articles on Rheinberg Illumination and filters, and it hosts a few which contain cursory instruction on how to make them, but as is so often the case, cursory instruction leads to nothing but frustration and poor results. Fortunately, there is one definitive resource for those wishing to learn the art of constructing Rheinberg filters: Mike Shaw's book How To Make Rheinberg Filters. Mr. Shaw's book thoroughly describes and illustrates every aspect of making Rheinberg and some

other filters used in microscopy. Filter construction aside, the book contains valuable information as to where tools and supplies may be procured, how common household tools can be re-purposed for filter making, and even how to market and sell filters as a business. Although he describes many sources for supplies, Mr. Shaw also maintains an .com store for those readers wishing to purchase some of the tools and materials mentioned in the book. *How To Make Rheinberg Filters* is written in a personable, easy-to-read style. The author avoids becoming bogged down in optical theory, and avoids using overly technical terminology. To his credit, and of great benefit to the reader, Mr. Shaw emphasizes the simple and practical. As a result, his book is suitable for use by both student and adult readers. Professionals and hobbyists alike will find great value in the book's contents. Besides Rheinberg filters, there is a thorough discussion of Darkfield Illumination, filters and their construction. Some expensive professional microscopes contain built-in Darkfield Illumination, but most do not. Simple to construct using Mr. Shaw's techniques, one can quickly make a Darkfield filter which would cost ten times the book's price if purchased from a microscope manufacturer. For those unfamiliar, Darkfield Illumination produces images which reveal details not visible using a microscope's standard (Brightfield) Illumination. A related experimental filtering technique described as DIY Filtering is covered here as well. This section alone is well worth many times the price of the book. There is some bonus material included in *How To Make Rheinberg Filters*. Although not relating to Rheinberg, the author has included a chapter on how to make an inexpensive microscope camera mount, and how to build a simple but effective plant press for preserving plant specimens collected from the field. In conclusion, I recommend this book to anyone interested in understanding, making, and or using Rheinberg filters or the other microscope filters discussed in *How To Make Rheinberg Filters*.

This book is just under 200 pages and evolved from a paperback Michael Shaw had written. As would be expected, much of the material from the paperback version had been carried over to the electronic version. However, the book has been revised and additional material added. For example, there is now a chapter on how to attach a digital camera to a microscope. As noted by the previous reviewers this is a how to book: it is a practical guide for making Rheinberg filters as well as providing some guidelines on making oblique illumination stops and using polarizing filters. So it would be incomplete to say that this book JUST covers making Rheinberg filter. It is more general and should provide a working guideline on how to increase contrast when viewing transparent specimens in a light microscope. The materials and methods are inexpensive and simple and will be of value to the hobbyist who enjoys viewing the micro world. The book is not a theoretical analysis

on microscope illumination strategies. Rather is is a guide book that encourages the microscopist to play with his microscope, enabling him to generate colorful images from specimens that are normally colorless. The book has color illustrations. A quick note on reading the book. You do not need a Kindle. All you need is a smart phone or a computer or a tablet that can run the Kindle Reading Apps (the two I downloaded for my iPhone and Mac computer were free). So don't be put off from buying this book if you don't own a Kindle. I recommend this book. It is an easy and fast read and provides numerous helpful suggestions and insights on working with a microscope. Brian Matsumoto[...]

Not sure how I came across this book, but wow what an informative read. If you have any interest in microscopes either for work, school or play, this book is for you. Michael creates microscope filters for people and institutions across the world. In this book he shares with you first how to use those filters then how to make your own filters if you are interested. He then goes one step further and walks you through how he setup his business on the web to market and sell his products. He provides guidance on how to setup a marketing website, create an order management system and deliver superior customer service. So who is this book for, here are just a few people I think would benefit- Scientists looking for a source for Rheinburg filters- Hobbyists that want to expand their knowledge and have more fun with their microscopes- DIY folks who want to build a microscope out of their digital camera- School kids looking for an idea for their science project- Anyone that is interested in setting up an online business to sell products

Very much a direct how-to without dazzling bs I am so happy that someone can still write in this manner. I now know how to make rheinberg filters and what effects I will get out of them, giving me a very useful tool for the rest of my life.

Interestingly, this book could lead to a whole new income stream.

This book shows a step by step method for creating colored filters (Rheinberg). It is easy, works great and Mike sells anything you might need for easy production of filters. How to Make Rheinberg Filters

Fascinating coverage of Darkfield and Rheinberg filters. Unfortunately I didn't have time to utilize the information.

Good book

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