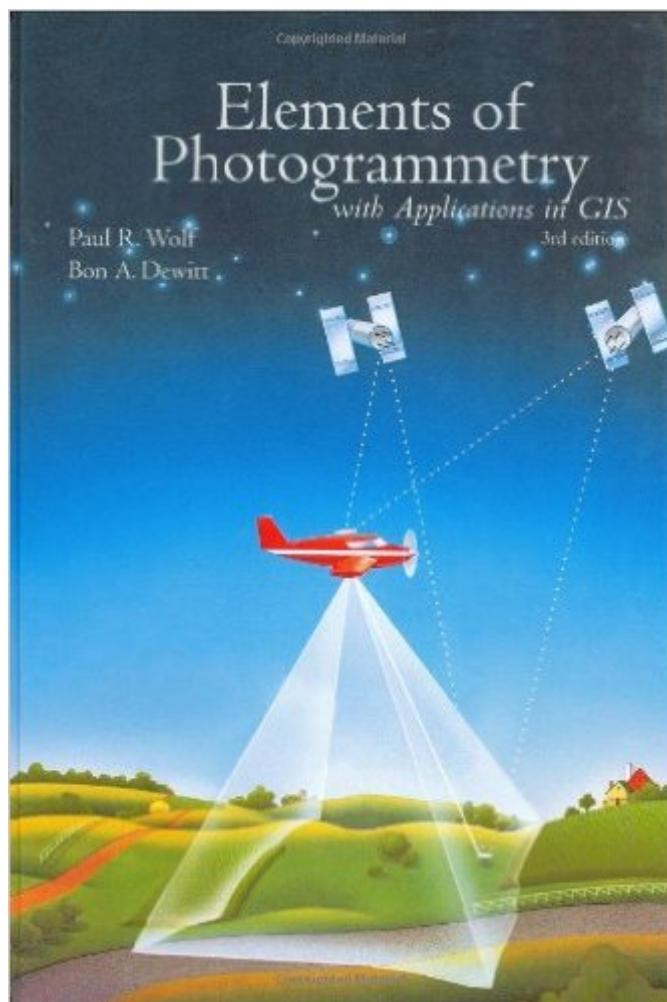


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# Elements Of Photogrammetry With Applications In GIS



## **Synopsis**

The first new edition in 13 years incorporates recent changes on the subject of streamlining from advances in computers. Their ever increasing speed and storage capabilities have directly led to an entire new approach in photogrammetric mapping known as "Soft-Copy" photogrammetry. Digital Imaging systems, including those used in modern satellite programs, scanners for digitizing photographic images, and digital image processing techniques are new topics to be covered that are fundamental to soft copy photogrammetry.

## **Book Information**

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## **Customer Reviews**

This book is substantially revised from the previous edition in 1983, some 17 years ago. Consequently, new topics are added, particularly on GIS and digital photogrammetry. The appendixes on least squares adjustment, co-ordinate transformations, collinearity equations and digital resampling are particularly useful. This book is clearly one of the best ones around in the area of photogrammetry. The chapters are properly organised and the concepts are explained clearly. Of course, every book has to focus on its intent and target audience. The authors did this with flying colors. If there is anything missing in the current photogrammetric literature, it surely must be a book that reorganises the chapters into an operational book of case studies on photogrammetric practice. I strongly recommend the book to you. Dr Willie Tan [bdgtanw@nus.edu.sg](mailto:bdgtanw@nus.edu.sg)

...get this one. And believe me you can probably only afford one modern text on the subject, they are all so expensive. This book is quite good at explaining the calculations as well as the qualitative concepts of photogrammetry. It starts out explaining simple lenses and cameras, coordinate systems, the basic geometry of imaging, and continues through with calculations for stereo images. Even basic digital image processing is not neglected - nothing fancy mind you, but basic digital imaging kernels are discussed as well as histogram techniques for contrast enhancement, which is often a problem for aerial photographs. How to determine the meaning and locations of ground points is also discussed in the context of tilted photographs after a full discussion of this same subject involving vertical photographs - those taken where the camera is aimed at a 90 degree angle to the ground. There is nothing really complex about the math for any of this as long as you know the steps, and this book is all about teaching you the what and why of those computational steps. Detailed numerical examples are included as well as excellent explanations throughout. In case you need to brush up on your math, the book contains an approximately 80 page long appendix with refreshers on least-squares methods, coordinate systems math, collinearity condition equations, and digital resampling. Unfortunately, there are no solutions or answers included to end of chapter problems. If you are lucky enough to have this book as a text in a class on this subject, hang on to it as a reference.

Its a crime what they charge for text books. Book arrived on time and served its purpose. That's about all I can say other than ridiculous. The book (new) cost almost as much as the course itself????

If you going to check E-Bay, you will find the better deal. Same book going for only \$46! Good luck with you shopping!

This book is an excellent resource and covers all topics in a sufficient and easy to read manner and definitely covers all the "elements". Anyone that is interested in Photogrammetry will find this book quite useful.

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