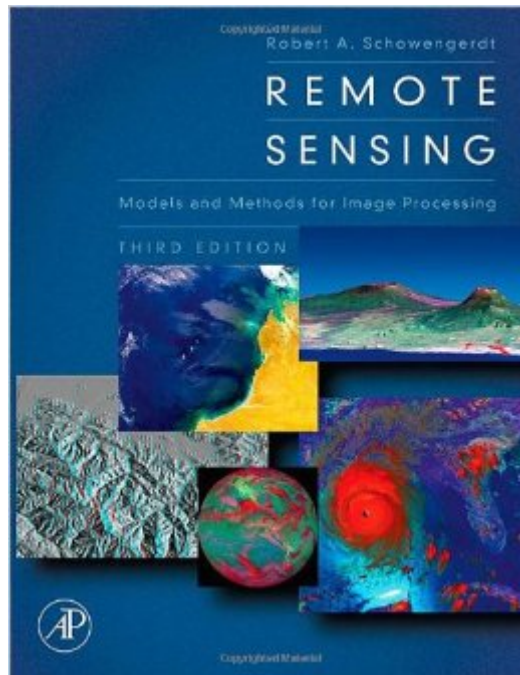


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Remote Sensing, Third Edition: Models And Methods For Image Processing



Synopsis

Remote sensing is a technology that engages electromagnetic sensors to measure and monitor changes in the earth's surface and atmosphere. Normally this is accomplished through the use of a satellite or aircraft. This book, in its 3rd edition, seamlessly connects the art and science of earth remote sensing with the latest interpretative tools and techniques of computer-aided image processing. Newly expanded and updated, this edition delivers more of the applied scientific theory and practical results that helped the previous editions earn wide acclaim and become classroom and industry standards. Dr. Schowengerdt presents an advanced unified framework and rationale that uniquely empowers the reader with the latest critical thinking skills and prerequisite knowledge needed to successfully design, develop and incorporate maintainable remote sensing solutions for real-world application. Advanced remote sensing image processing techniques such as hyperspectral image analysis, fusion of multisensor images and digital elevation model extraction from stereo imagery are discussed theoretically in terms of spectral, spatial, and geometric models. An expanded exercise section is also included at the end of each chapter allowing for the greatest level of mastery ever. *Features a new lively discussion of the NASA EOS satellites, Terra and Aqua, and the commercial satellites IKONOS and Quickbird.*New larger format provides additional access to 32 PAGE - FULL COLOR plate insert and improved readability*Additional data processing algorithms help connect and enhance the collective understanding of engineering design and remotely sensed data

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Customer Reviews

Almost as good as Gonzaez and Woods on explaining digital image processing, this book has the added advantage of showing the relationship between that field and remote sensing. In other words, it shows you how to use the transforms to accomplish goals in the field of remote sensing. Also, it has some really good exercises at the end of each chapter so you can really prove to yourself that you understand what is going on. I give this book four stars instead of five because there is no real advantage to buying this new book over the previous second edition, although that book is about ten years old. This edition does discuss the more modern sensors, but the calculations and models have not changed. There is no real additional content. In fact this edition and the previous one are almost identical in length. My advice is save yourself some money and get the second edition for less. If you are using it as a professional reference it should serve you well.

I regularly teach university courses on remote sensing and supervise students who use remote sensing as a basis for their papers and theses. I find this text an excellent, clear and rich resource. This is a book for people who not only want to learn and understand what remote sensing is, but to actually do serious studies with this type of data. In contrast with other more widely known textbooks such as Lillesand and Kiefer, Schowengerdt goes deep into important technical issues, without excessive verbose. A good investment for the serious student and professional.

This book explains thoroughly a lot of the concepts (physics, technical, statistics...) that are included. It also gives some simplified examples of algorithms to explain concepts better.

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