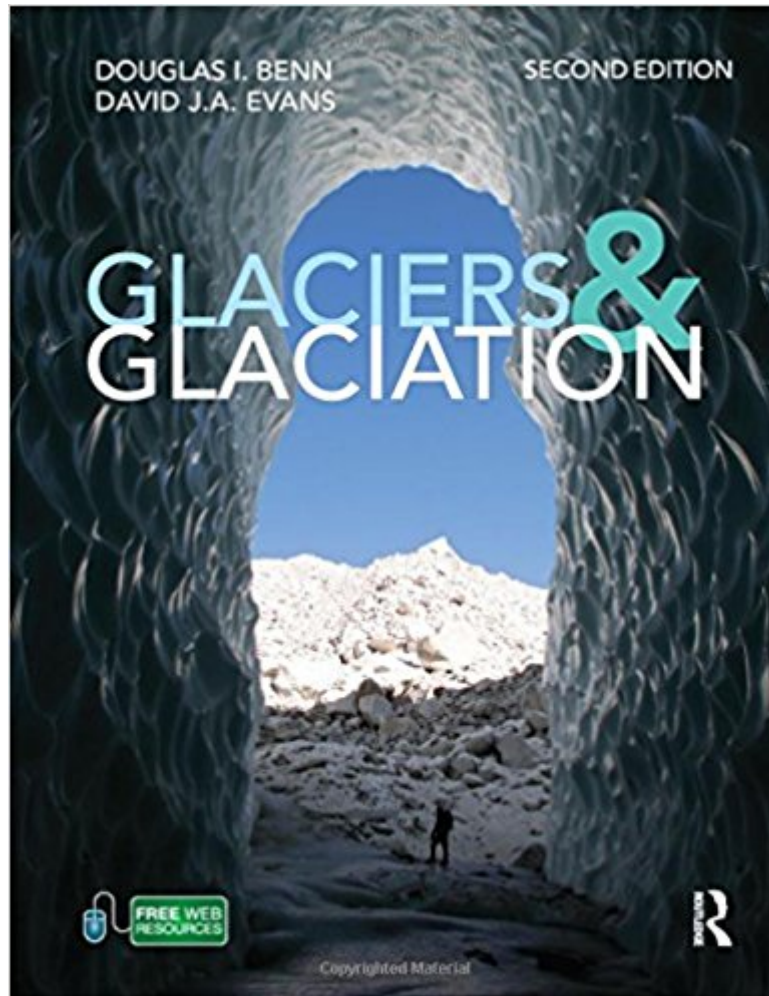




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# Glaciers And Glaciation, 2nd Edition (Hodder Arnold Publication)



## Synopsis

Glaciers and Glaciation is the classic textbook for all students of glaciation. Stimulating and accessible, it has established a reputation as a comprehensive and essential resource. In this new edition, the text, references and illustrations have been thoroughly updated to give today's reader an up-to-the minute overview of the nature, origin and behaviour of glaciers and the geological and geomorphological evidence for their past history on earth. The first part of the book investigates the processes involved in forming glacier ice, the nature of glacier-climate relationships, the mechanisms of glacier flow and the interactions of glaciers with other natural systems such as rivers, lakes and oceans. In the second part, the emphasis moves to landforms and sediment, the interpretation of the earth's glacial legacy and the reconstruction of glacial depositional environments and palaeoglaciology.

## Book Information

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## Customer Reviews

A masterpiece... It demonstrates what can be achieved when widespread and ambitious fieldwork is combined with extensive library work, excellent understanding, and what must have been inordinate dedication. Professor J.D. Ives for Choices (about the first edition) A modern synthesis that will be appreciated by professional scientists and graduate students both inside and outside the discipline. This book is the best of its kind, an impressive contribution to science and to education. Professor G.K.C. Clarke for the American Geophysical Union (about the first edition) "This is by far the best book on the market for a glacial geology course." Dr. Alan Kehew, Department of Geosciences,

Douglas I. Benn is currently Professor of Glaciology at the University Centre in Svalbard, and has a part-time position at the University of St Andrews. His PhD was on the Younger Dryas glaciation of the Isle of Skye, Scotland (St Andrews, 1990), and he has subsequently conducted research into glacial geomorphology and sedimentology in Scandinavia, South and North America, and the Himalaya. More recently, his research has focused mainly on glaciological processes, including the mass balance of debris-covered glaciers, calving, glacier surges, and direct exploration of englacial and subglacial drainage systems.

David J.A. Evans is a glacial geomorphologist and Quaternary scientist who gained a Geography BA at the University of Wales (Lampeter) in 1982, an MSc at Memorial University of Newfoundland, Canada in 1984 and a PhD at the University of Alberta, Canada in 1988. He has undertaken research on glaciers and glaciation in Arctic Canada, Iceland, Norway, the Canadian prairies, Svalbard, South Georgia, New Zealand, Labrador, the Himalayas, Ireland and Britain. After 14 years at the University of Glasgow he exchanged his drumlinized surroundings at Loch Lomond for the meltwater channels of upper Teesdale in the Pennines of northern England and is presently a Reader in Geography at the University of Durham.

*Glaciers and Glaciation* by Douglas Benn and David Evans is an excellent review of the current theory and underlying principles of glacier science. It is copiously illustrated with black and white photographs, line drawings, diagrams, charts, and graphs. The writing is technical, but the ideas involved are clearly and methodically presented. The organizational structure of the book is comprehensive and logical, helping the reader comprehend and absorb fundamental concepts. The book is designed for those with a serious interest in science. It would be appropriate, for example, for college students who have had an introductory course in geology and know that they wish to continue studying one of the earth sciences. It is also appropriate for professionals like myself, who are not geologists, but who have a strong interest in the earth sciences and wish to learn more about glaciers and glaciation. The book may be accessible for people without a science background if they are willing to absorb the high rate of new vocabulary and concepts that the text presents. The first chapter on glacier systems and those in the second half of the book dealing with glacial landforms may be particularly satisfying in this regard. Even the more difficult chapters, like those on glacier motion, may be absorbing if people can visualize how the glacier slides, changes shape, and pours like a thick syrup over obstructions. I found the book to be fascinating. It took me 71 hours

over a period of several months to read the entire 640 pages of text and study the many diagrams and other illustrations the book has to offer. By applying what I have learned from Benn and Evans, I have been able to interpret certain sand and gravel deposits in my area as probable subaqueous outwash fans deposited by the retreat of the last ice sheet here in Maine. This interpretation needs to be verified by others more qualified than myself, but I could not have hoped to come up with an hypothesis of this nature without the knowledge gained in reading this text. The book has abundant references, as it is in many ways a review of the current literature and thinking on the subject. It does not deal with the current debate about climate change, nor does it deal primarily with glacial history. Instead, it excels in its main purpose as a clear and quite technical discussion of the current principles and theory of glacier science as understood by glaciologists today.

This is only a review about the format: Unfortunately the Kindle-version is just horrible. All the images are extremely low-res and uneasy on the eyes. Some images are completely unreadable and useless because of this. Samples of the poor quality you can expect below:

As a geologist who has long had a strong interest in Glaciology, this is the best book I have ever found on the topic. To the 3 or 4 other people who may buy this book.....lol...You will not be disappointed.

Bought this for a glacial geology class. It's written well enough that I don't always stop at the end of the assigned readings.

This is a review of the Kindle Edition of *Glaciers and Glaciation* (more expensive than the paperback). The content and scope of the book is excellent. The authors do an excellent job covering a broad range of topics and with great detail and an emphasis on references. The text is exceptionally well written and easy to follow - they do a great job stressing the important aspects of glaciers and glacial landforms and have a balanced approach to those topics that are controversial. My problem is with the Kindle Edition. I wish I had purchased the hard copy because nobody edited the electronic version and it shows. The figures are out of place and can't be expanded to an extent to see the text or detail, the equations are full of typos (variables and subscripts were not proofed), some sections made absolutely no sense at all! This made it very frustrating to read the Kindle version. I would give the text five stars but the Kindle version one star. You would think that if they charge as much as they do for the Kindle version, they would take the time to make sure it was

edited properly. Great job by the authors, poor job by .

This, in my opinion, is an excellent book. As others have said, it is really wordy and in some places, absolutely foreign to me. But don't let this discourage you from getting it. One of the most comprehensive books on glaciers ever! Ah, and also, this book contains some great pictures and charts. But it could take you a while to read, being err... "thick" is an understatement

This book, while some of the terms are out of date, is a must have on the shelf of anyone interested in or studying glaciers. It is a good, easy, and informative read.

An excellent book, no student of glacial geomorphology can function without it. Three Cheers to Benn & Evans...we've all been waiting for an all encompassing guide like this.

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