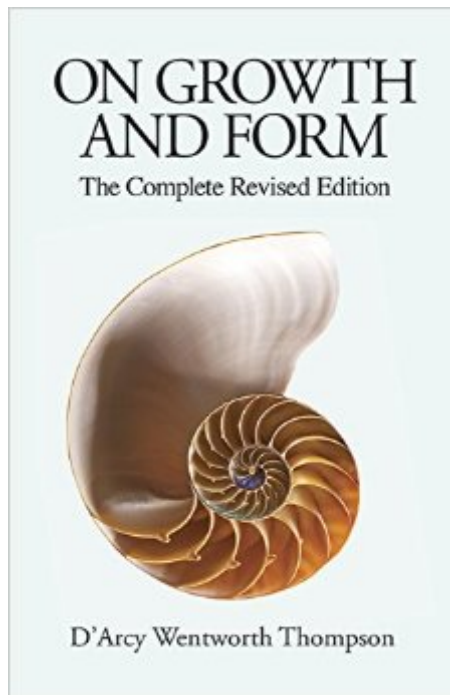


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On Growth And Form: The Complete Revised Edition



Synopsis

In this classic of biology and modern science, Sir D'Arcy Wentworth Thompson (1860–1948), one of the most distinguished scientists of the modern era, sets forth his seminal "theory of transformation" - that one species evolves into another not by successive minor changes in individual body parts but by large-scale transformations involving the body as a whole. First written in 1917, the book was revised by Thompson in 1942 – the revision reprinted here. The esteem in which this monumental, lavishly illustrated work is universally held derives not only from its scholarship and creativity, but also from the rich literary style that exemplifies Thompson's great erudition in the physical and natural sciences, ancient and modern languages and the humanities. The book begins with studies of organic magnitude, the rate of growth, cellular form and structure, adsorption, and the forms of tissues, then examines a vast spectrum of life forms, and concludes with a comparison of related forms that leads to the theory of transformations.

Book Information

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Customer Reviews

I heard about this marvellous book as I was reading in the typical popular science literature years ago now but its almost impossible to avoid contact with this tome of the archetypal polymath D'Arcy Wentworth Thompson. A remarkable man with a wonderful open view of science and the, what's now called, interdisciplinarian approach to the world. Refreshingly full of new ideas especially for his day and even now where conservatism as usual is the norm in scientific circles. I hope many scientists read this book and see not just a curiosity but a representation of a whole approach to the world of nature. I will never forget the first time I read the chapter on coordinate transformations in

animal shapes, today's schools simply do not inspire in this way and its time this changed. The presence of this book, well read, on any person's bookshelf is a must.

It's about so much more than the limits our minds create from standard reviews & categorizations. Shows how to organize your thinking to tackle something new. On the surface, it's a turn of the century survey & application of physical scientific knowledge. On a higher level it communicates how to effectively organize knowledge as a tool & pathway to inner understanding as only the CLASSICS can do. I was required to read it for my Brandeis Ph.D. in Biophysics, but have recommended it to home schoolers as the best single book to inform a teenager about physics, chemistry, biology, & practical thinking. The Latin roots of the title words, Form & Function, are utilized, rather than specialized contemporary jargon.

I have had a copy of this book since I was 16. I have given it as gifts, and believe it to be one of the fundamental books that has changed science and the way we think of the world. As you can tell I love this book. However, the Kindle version is almost useless. The tables are not reproduced in any readable way, and there are none of the pictures that are needed to understand the text. eBooks like this do a tremendous disservice to the Kindle. This could be a wonderful resource to have on the Kindle, but no care was taken in the transcription, and to charge for this is an outrage. There is absolutely no way that I could recommend the Kindle version of this wonderful book.

I wish I had read the reviews to this edition before I bought it because I would not have wasted my money. However, my complaint is different from that of the others I have read. The book I received? I literally can't read it. Imagine using a copier to copy the pages of a book, with the "darkness" factor set high. That's what I got. A grey background to every page. There is such poor contrast between the type and the page that it's all just a big wash of grey. What a disappointment. btw there was no publisher listed anywhere on this edition - nor any mention that it was abridged. I suspect it is an "on-demand" printing, apparently overseen by a broken robot. I shall search out the unabridged edition elsewhere.

This wonderful book contains in its original form more than a thousand clearly written pages, and over five hundred illustrations. The poor excuse of a book, facsimile copy I got for ~12\$ contains less than three hundred pages, and in its black and white printed form (opposed the full color online view) is barely readable. Check the number of pages in the book version offered before you buy !

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This book is a classic, no two ways about it. It is really the first credible attempt to start taking a quantitative approach to biology, and despite the developments of the past century (molecular biology, etc), the problems raised in this book are just as pressing as they were when thompson wrote it. Anyone working in cell biology nowadays will immediately see applications of the ideas in this book, for example to organelle morphogenesis. The genius and erudition of thompson shine through on every page, making the book inspiring to read.

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