



Sustainable Materials Without the Hot Air: Making Buildings, Vehicles and Products Efficiently and with Less New Material

By Julian M. Allwood, Jonathan M. Cullen

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Part of the hugely popular Without the Hot Air series, this book is accessibly written from an engineering perspective on a wide range of materials

Presenting a vision of change for how future generations can still use steel, cement, plastics, etcetera, but with less impact on the environment, this book is a wake-up call first, and then a solutions manual. By providing an evidence-based vision of change, the book can play a significant role in influencing our future. Written for designers; engineers; operations, technical, and business managers; traders; and government and NGO officials associated with business, climate, energy, environment, waste, trade and financing. It is relevant to a wide range of industries, including energy, construction, consulting, manufacturing, transport, and architecture, but will also appeal to those who love popular science. This second edition is updated with the latest developments in both science and industry.

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Editorial Review

Review

"Though the authors have expertise in their subject, and it shows, they also write engagingly, explaining production methods and yield analysis in a way that a general audience can understand, and that will hopefully inspire industry to put these ideas into practice." —Jeff Fleischer, *Foreword Reviews*

"An excellent book . . . the message is clear and convincing: We can't go on using materials the way we have been for the past 150 years, but fortunately, we don't have to. We can meet the world's growing need for the stuff of modern life, avoid the worst effects of climate change, and preserve the environment for future generations . . . Although the topic can be dry as a desert, the authors keep it light with lots of colorful illustrations and clever analogies without sacrificing clarity or rigor. I learned a lot from this thoughtful look at a critical topic." —Bill Gates, *gatesnotes.com* on first edition

About the Author

Julian M. Allwood is a professor in engineering at the University of Cambridge, where he leads the Low Carbon Materials Processing research group. **Jonathan M. Cullen** is university lecturer in the University of Cambridge engineering department. They both have extensive experience working in the engineering industry, in addition to their numerous research projects.

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