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Perfect for biochemists, synthetic and organic chemists, this book covers all important reactions, including C-C coupling reactions, oxidation reactions and many more. Divided into two parts, the first section on methodology presents new innovative methods for enzymatic catalysis optimization, including such new trends as medium engineering, directed evolution and computer-aided prediction of enantioselectivity. The second and main section deals with applications to synthesis, showing important reaction types and their applications. Only those reactions with very high selectivity are presented, allowing readers to improve their own reaction yields.

A New York Times Most Anticipated Book of the Summer A taboo-busting romp through the shame, stink, and strange science of sweating. Sweating may be one of our weirdest biological functions, but it's also one of our most vital and least understood. In The Joy of Sweat, Sarah Everts delves into its role in the body!and in human history. Why is sweat salty? Why do we sweat when stressed? Why do some people produce colorful sweat? And should you worry about Big Brother tracking the hundreds of molecules that leak out in your sweat!not just the stinky ones or alleged pheromones!but the ones that reveal secrets about your health and vices? Everts's entertaining investigation takes readers around the world!from Moscow, where she participates in a dating event in which people sniff sweat in search of love, to New Jersey, where companies hire trained armpit sniffers to assess the efficacy of their anti-sweat products. In Finland, Everts explores the delights of the legendary smoke sauna and the purported health benefits of good sweat, while in the Netherlands she slips into the sauna theater scene, replete with costumes, special effects, and towel dancing. Along the way, Everts traces humanity's long quest to control sweat, culminating in the multibillion-dollar industry for deodorants and antiperspirants. And she shows that while sweating can be annoying, our sophisticated temperature control strategy is one of humanity's most powerful biological traits. Deeply researched and written with great zest, The Joy of Sweat is a fresh take on a gross but engrossing fact of human life.

Praise for the Fourth Edition"Outstanding praise for previous editions.the single best general reference for the organic chemist."-Journal of the Electrochemical Society"The cast of editors and authors is excellent, the text is, in general, easily readable and understandable, well documented, and well indexedthose who purchase the book will be sa

'Total Synthesis of Natural Products' is written and edited by some of today's leaders in organic chemistry. Eleven chapters cover a range of natural products, from steroids to alkaloids. Each chapter contains an introduction to the natural product in question, descriptions of its biological and pharmacological properties and outlines of total synthesis procedures already carried out. Particular emphasis is placed on novel methodologies developed by the respective authors and their research groups. This text is ideal for graduate and advanced undergraduate students, as well as organic chemists in academia and industry.

This valuable and unique text, written by world-renowned researchers, covers the application of these reagents to organic synthesis. The book is written in a clear and concise manner, containing step-by-step experimental procedures, and should be a valuable resource to new postgraduate students and experienced researchers alike.

In the bestselling tradition of Stuff Matters and The Disappearing Spoon: a clever and engaging look at materials, the innovations they made possible, and how these technologies changed us. Finalist for the 41st Los Angeles Times Book Award in Science and Technology and selected as one of the Best Summer Science Books Of 2020 by Science Friday. In The Alchemy of Us, scientist and science writer Ainissa Ramirez examines eight inventions--clocks, steel rails, copper communication cables, photographic film, light bulbs, hard disks, scientific labware, and silicon chips--and reveals how they shaped the human experience. Ramirez tells the stories of the woman who sold time, the inventor who inspired Edison, and the hotheaded undertaker whose invention pointed the way to the computer. She describes, among other things, how our pursuit of precision in timepieces changed how we sleep; how the railroad helped commercialize Christmas; how the necessary brevity of the telegram influenced Hemingway's writing style; and how a young chemist exposed the use of Polaroid's cameras to create passbooks to track Black citizens in apartheid South Africa. These fascinating and inspiring stories offer new perspectives on our relationships with technologies.

For thousands of years, we've found ways to scorch, scour, and sterilize our surroundings to make them safer. Sometimes these methods are wonderfully effective. Often, however, they come with catastrophic consequences!consequences that aren't typically understood for generations. The Chemical Age tells the captivating story of the scientists who waged war on famine and disease with chemistry. With depth and verve, Frank A. von Hippel explores humanity's uneasy coexistence with pests, and how their existence, and the battles to exterminate them, have shaped our modern world. Beginning with the potato blight tragedy of the 1840s, which led scientists on an urgent mission to prevent famine using pesticides, von Hippel traces the history of pesticide use to the 1960s, when Rachel Carson's Silent Spring revealed that those same chemicals were insidiously damaging our health and driving species toward extinction. Telling the story of these pesticides in vivid detail, von Hippel showcases the thrills and complex consequences of scientific discovery. He describes the invention of substances that could protect crops, the emergence of our understanding of the way diseases spread, the creation of chemicals used to kill pests and people, and, finally, how scientists turned those wartime chemicals on the landscape at a massive scale, prompting the vital environmental movement that continues today. The Chemical Age is a dynamic, sweeping history that exposes how humankind's affinity for pesticides made the modern world possible!while also threatening its essential fabric.