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This book emerged from shared interests and conversations over many years between former Ph.D. chemists, now leaders in science policy and industry who all share a commitment to public service. While the training of Ph.D. chemists is generally targeted at a research career, the opportunities that lie beyond the degree are much more diverse. Nine Ph.D. chemists who chose careers outside of academia describe their career choices and reflect on advice they have looking back on their career path for those just starting theirs. This is the last line of their preface: if the stories in these pages speak to you: Welcome to the family.

'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 book provides informative, useful, and stimulating reading on the topic of organic sonochemistry – the core of ultrasound-based applications. Given the increasing interest in new and improved technologies, allied to their green and sustainable character (not always a valid premise), there is a great attraction for organic chemists to apply these protocols in synthesis and process chemistry. Unfortunately, as with other enabling technologies, many researchers new to the field have received a simple and dishonest message: just switch on! Therefore a significant portion of sonochemical syntheses lack reproducibility (surprisingly cavitation control and/or ultrasonic parameters are omitted) and the actual role of sonication remains uncertain. While this book does not provide a detailed description of fundamentals, the introductory remarks highlight the importance of cavitation effects and their experimental control. It presents a number of concepts of sonochemical reactivity and empirical rules with pertinent examples, often from classical and recent literature. It then focuses on scenarios of current interest where organic chemistry, and synthesis in particular, may benefit from sonication in terms of both chemical and mechanical activation. The “sustainable corner” of this field is largely exemplified through concepts like atom economy, renewable sources, wasteless syntheses, and benign solvents as reaction media. This book is useful for both researchers and graduate students, especially those familiar with the field of sonochemistry and applications of ultrasound in general. However, it is also of interest to a broader audience as it discusses the fundamentals, techniques, and experimental skills necessary for scientists wishing to initiate the use of ultrasound in their domain of expertise.

This second edition offers easy access to the field of organotransition metal chemistry. The book covers the basics of transition metal chemistry, giving a practical introduction to organotransition reaction mechanisms.

Reports progress on chemical, enzymatic, phage, and cell-derived libraries. Discusses synergy between structure-based design and combinatorial libraries. Presents applications of combinatorial libraries to drug discovery and new synthetic catalysis. Reports library screening approaches, including the use of NMR. Presents recent advances in solid-phase organic synthesis, liquid-phase organic synthesis, and high-throughput combinatorial organic synthesis. Discusses automation of organic synthesis as well as new methodologies for monitoring solid-phase organic synthesis.

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.

Boron compounds have been used extensively in organic synthesis for more than sixty years. Some of the best known reactions in synthesis, such as the Suzuki-Miyaura cross-coupling and the hydroboration reaction, involve boron compounds. Several natural products containing boron have been isolated in the last fifty years, including ionophoric macrodiolide antibiotics boromycin, borophycin, aplasmomycins A, B, and C, and tartrolons B, C, and E, as well as autoinducer-2. The study of compounds containing boronic acids for application in pharmaceuticals and materials science has grown tremendously over the last few decades. These include bortezomib, ixazomib, and tavorole. Several more boron-based drugs are currently in clinical trials. Boron neutron capture therapy has the potential to provide a treatment for various cancers. In addition, materials bearing boronic acids are being studied as potential sensors for biological molecules, such as saccharides and glycoproteins that possess cis-1,2- or cis-1,3-diols.

The 75th Anniversary Celebration of the Division of Polymeric Materials: Science and Engineering of the American Chemical Society, in 1999 sparked this third edition of *Applied Polymer Science* with emphasis on the developments of the last few years and a serious look at the challenges and expectations of the 21st Century. This book is divided into six sections, each with an Associate Editor responsible for the contents with the group of Associate Editors acting as a board to interweave and interconnect various topics and to insure complete coverage. These areas represent both traditional areas and emerging areas, but always with coverage that is timely. The areas and associated chapters represent vistas where PMSE and its members have made and are continuing to make vital contributions. The authors are leaders in their fields and have graciously donated their efforts to encourage the scientists of the next 75 years to further contribute to the well being of the society in which we all live. Synthesis, characterization, and application are three of the legs that hold up a steady table. The fourth is creativity. Each of the three strong legs are present in this book with creativity present as the authors were asked to look forward in predicting areas in need of work and potential applications. The book begins with an introductory history chapter introducing readers to PMSE. The second chapter introduces the very basic science, terms and concepts critical to polymer science and technology. Sections two, three and four focus on application areas emphasizing emerging trends and applications. Section five emphasizes the essential areas of characterization. Section six contains chapters focusing on the synthesis of the materials.

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