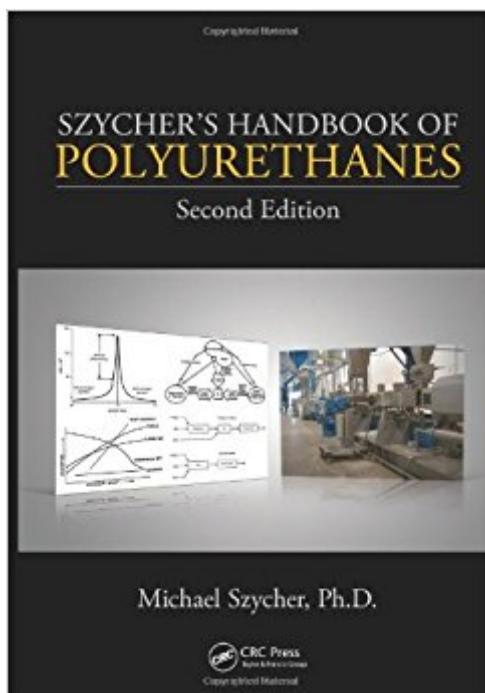


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# Szycher's Handbook Of Polyurethanes, Second Edition



## Synopsis

A practical handbook rather than merely a chemistry reference, Szycher's Handbook of Polyurethanes, Second Edition offers an easy-to-follow compilation of crucial new information on polyurethane technology, which is irreplaceable in a wide range of applications. This new edition of a bestseller is an invaluable reference for technologists, marketers, suppliers, and academicians who require cutting-edge, commercially valuable data on the most advanced uses for polyurethane, one of the most important and complex specialty polymers. Internationally recognized expert Dr. Michael Szycher updates his bestselling industry "bible" With seven entirely new chapters and five that are revised and updated, this book summarizes vital contents from U.S. patent literature – a one of the most comprehensive sources of up-to-date technical information. These patents illustrate the most useful technology discovered by corporations, universities, and independent inventors. Because of the wealth of information they contain, this handbook features many full-text patents, which are carefully selected to best illustrate the complex principles involved in polyurethane chemistry and technology. Features of this landmark reference include: Hundreds of practical formulations Discussion of the polyurethane history, key terms, and commercial importance An in-depth survey of patent literature Useful stoichiometric calculations The latest "green" chemistry applications A complete assessment of medical-grade polyurethane technology Not biased toward any one supplier – as expertise, this special reference uses a simplified language and layout and provides extensive study questions after each chapter. It presents rich technical and historical descriptions of all major polyurethanes and updated sections on medical and biological applications. These features help readers better understand developmental, chemical, application, and commercial aspects of the subject.

## Book Information

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## Customer Reviews

"The book can be highly recommended to practitioners." [Polymer News](#) "... a valuable resource ... brings together information from a wide variety of academic and commercial sources. The handbook contains a wealth of information from the patent literature which reflects the commercial importance of polyurethanes and provides direction for future research and development activities." [Andrew M. Reed, Ph.D., President, AMRAR, LLC](#) "... prepared by an expert user of polyurethanes and covers all the arms of the polyurethane family. The patent and general references allows further in depth studies to be carried out by researchers. ... brings together data from many sources and is not biased toward any one supplier's expertise. ... covers the materials as well as the specialist materials that are used in the polyurethane industry." [Ian Clemitson, Retired Industrial Chemist, Bellmere, Qld, Australia](#) "Overall, the 2nd ed of Szycher's Handbook of Polyurethanes offers excellent and crucial new information on polyurethanes technology. It is of essential help for readers to understand better all aspects relevant to this field, from fundamentals of polyurethanes to their development, applications and commercial aspects. Remember Robert Quillen's quote that 'if we wish to make a new world we need to have the material ready'? From this perspective, the 2nd ed of Szycher's polyurethane handbook brings substantial contribution towards the inexhaustible field of polyurethanes, so to help prepare them 'ready' for future." [Cristina Prisacariu, Institute of Macromolecular Chemistry "Petru Poni", Iasi, Romania](#)

Noted entrepreneur Dr. Michael Szycher is chairman and CEO of CardioTech International, Inc., a manufacturer of medical products based on specialized polyurethanes. He holds a Ph.D from Boston University School of Medicine and an MBA from Suffolk University. He is an internationally recognized expert in medical-grade polyurethanes and blood-compatible polymers and was a pivotal force in the creation of the Medical Plastics Division of the Society of Plastics Engineers (SPE). He is also founding editor of the Journal of Biomaterials Applications.

The book is interesting and useful because cover many aspects of polyurethane chemistry and application with an specific look to related patents Unfortunately, as a chemist, I have to say that the

quality of chemical structure is poor, too much errors (carbon atoms with 5 bonds and things like that)! It's pity to read a book that reviews so many patents coming from the cutting edge of polyurethane chemistry with such a sloppy appearance.

I really have not found this book to be a very useful desk reference. It has many pages but the content is thin. Not for someone with anything but very superficial knowledge.

This books second edition published on 13th Aug 2012 is possibly the best Handbook after several years gap in Polyurethane Industry, considering the original Oertel HandBook was published in mid eighties. Well written comprehensive and exceptional printing, pages and overall product quality. Very good

Chemical structures are crudely drawn with many inaccuracies. Loaded with mistakes and absurd chemical structures. Obviously not proof read by an Organic Chemist. Don't waste your money.

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