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This book deals with the polymers, different methods of synthesis, and synthesis of composites, as well as the different techniques used for polymer characterization. Most of the world's industries extract the anomalous properties of polymers to make excellent cost-effective materials. Because of this, the types of polymers, their processing, and the analysis of their various properties are very significant. Readers will gain a thorough knowledge about the processing of different types of polymers and composites made from them, as well as their various applications. Suitable for classroom use but especially important for researchers, this book addresses: Adhesion of amorphous polymers with vitrified bulk and surface glass transition Functionalized biopolymers and their applications A new synthesis of p-Cresol-Adipamide-Formaldehyde copolymer resin and its applications as an ion-changer Correlating performance of commercial viscosity modifiers for formulating shear stable industrial lubricants Synthesis of phthalonitrile polymers in ionic liquid and microwave media Studies on nanocomposite polymer electrolytes doped with $\text{Ca}_3(\text{PO}_4)_2$ for lithium batteries

" a very accessible book for those interested in polymer synthesis and characterization. The descriptions are well written, clear, and concise, especially the synthesis methods. Polymer chemists interested in nanoparticle effects on certain polymers and polymer composites will also find this book to be worth reading." November/December 2013, Vol. 29, No. 6 IEEE Electrical Insulation Magazine

About the Author Dr. Sabu Thomas is the Director of the School of Chemical Sciences, Mahatma Gandhi University, Kottayam, India. He is also a full professor of polymer science and engineering and the Director of the Centre for Nanoscience and Nanotechnology of the same university. He is a fellow of many professional bodies. Professor Thomas has authored or co-authored many papers in international peer-reviewed journals in the area of polymer processing. He has organized several international conferences and has more than 420 publications, 11 books and two patents to his credit. He has been involved in a number of books both as author and editor. He is a reviewer to many international journals and has received many awards for his excellent work in polymer processing. His h Index is 42. Professor Thomas is listed as the 5th position in the list of Most Productive Researchers in India, in 2008. Deepalekshmi Ponnamma is a Research Fellow at the School of Chemical Sciences at Mahatma Gandhi University in Kottayam, India. Ajesh K. Zachariah is doing doctoral research in polymer chemistry and nanomaterials at the School of Chemical Sciences at Mahatma Gandhi University, Kottayam, Kerala, India.