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Autore	Sudimantara Lala Bumela
Titolo	Multisensory CALL for Under-Resourced Universities and Schools in Indonesia / / by Lala Bumela Sudimantara, Luqman Baehaqi, Ania Lian, Andrew-Peter Lian
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Descrizione fisica	1 online resource (436 pages)
Altri autori (Persone)	BaehaqiLuqman LianAnia LianAndrew-Peter
Disciplina	428.0078
Soggetti	Language and languages - Study and teaching Teaching Educational technology Language Teaching and Learning Language Education Pedagogy Digital Education and Educational Technology
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Nota di contenuto	Chapter 1: Introduction: The Learning Crisis in Indonesia and the Need for Multisensory CALL -- Chapter 2: Transforming Writing Pedagogy in Indonesian Higher Education: A Comparative Framework -- Chapter 3: Integrated Methodological Framework: Multisensory CALL Approaches in Blended and Fully Online Academic Writing Contexts -- Chapter 4: Key Findings in Multisensory CALL for Academic Writing: A Study Based on Sudimantara (2021) -- Chapter 5: Discussion -- Chapter 6: Findings -- Chapter 7: Discussion -- Chapter 8: Integrating Reading for Emotions into School Curricula -- Chapter 9: Integrating Reading for Emotions and Aesthetics to Enhance Abstract Reasoning Skills: Practical Insights -- Chapter 10: Conclusion and Future Directions -- REFERENCES.
Sommario/riassunto	This book showcases the successful integration of multisensory

learning and computer-assisted language learning (CALL) in under-resourced schools and universities in Indonesia, aimed at addressing the learning crisis as indicated by the sharp decline of English Proficiency Index and PISA in the last two decades. Multisensory learning provides a well-rounded learning experience that helps students to accelerate their learning. The authors describe how brain-informed learning tools, such as the Verbotonal Approach, Reading for Emotions, and Aesthetics, can facilitate rich and engaging learning practices, and argues that adopting these practices can allow students to take a more active role in their learning, resulting in improved outcomes. This book will be of interest to readers in the Indonesian and other similar contexts, particularly those with an interest in language education, applied linguistics, CALL and TESOL. Lala Bumela Sudimantara is an educator and researcher in English Language Teacher Education at UIN Siber Syekh Nurjati Cirebon, Indonesia, where he also directs the International Office. With a PhD in Interdisciplinary Literacy Studies from Charles Darwin University, Australia, his work focuses on language pedagogy, technology-enhanced learning, and critical literacy. Luqman Baehaqi is a Senior Lecturer and researcher in English Language Education at IAIN Palangka Raya, Indonesia, where he leads the Institute for Research and Community Service and directs the International Office. Holding a PhD in Teacher Education from Charles Darwin University, Australia. Ania Lian is a Senior Academic at Charles Darwin University, Australia, specializing in language and literacy education. A trailblazer in Computer-Assisted Language Learning (CALL) and student-centered pedagogies, she integrates neuroscience, technology, and culturally responsive teaching to redefine 21st-century education. Andrew-Peter Lian is a leading scholar in language education, serving as Professor at Suranaree University of Technology, Thailand, and Professor Emeritus at the University of Canberra, Australia.

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Autore	Stuart Barbara (Barbara H.)
Titolo	Polymer analysis / / Barbara H. Stuart
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ISBN	9786612347559 9781282347557 1282347551 9780470511350 0470511354 9780470511343 0470511346
Descrizione fisica	1 online resource (304 p.)
Collana	Analytical techniques in the sciences
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Soggetti	Polymers - Analysis
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	POLYMER ANALYSIS; Contents; Series Preface; Preface; Acronyms, Abbreviations and Symbols; About the Author; 1 Introduction; 1.1 Introduction; 1.2 History; 1.3 Thermoplastics; 1.4 Thermosets; 1.5 Elastomers; 1.6 High-Performance Polymers; 1.7 Copolymers; 1.8 Blends; 1.9 Composites; 1.10 Additives; 1.11 Speciality Polymers; 1.11.1 Liquid Crystalline Polymers; 1.11.2 Conducting Polymers; 1.11.3 Thermoplastic Elastomers; 1.11.4 Biomedical Polymers; 1.11.5 Biodegradable Polymers; References; 2 Identification; 2.1 Introduction; 2.2 Preliminary Identification Methods; 2.2.1 Solubility; 2.2.2 Density 2.2.3 Behaviour on Heating2.3 Infrared Spectroscopy; 2.4 Raman Spectroscopy; 2.5 Nuclear Magnetic Resonance Spectroscopy; 2.6 Ultraviolet -Visible Spectroscopy; 2.7 Differential Scanning Calorimetry; 2.8 Mass Spectrometry; 2.9 Chromatography; 2.10 Emission Spectroscopy; References; 3 Polymerization; 3.1 Introduction; 3.2 Chain Polymerization; 3.2.1 Free-Radical Chain Polymerization; 3.2.2 Ionic

Chain Polymerization; 3.2.3 Coordination Polymerization; 3.2.4 Ring-Opening Polymerization; 3.2.5 Practical Methods of Chain Polymerization; 3.3 Step Polymerization; 3.3.1 Statistics; 3.3.2 Kinetics 3.4 Copolymerization3.5 Cross-Linking; 3.6 Dilatometry; 3.7 Infrared Spectroscopy; 3.8 Raman Spectroscopy; 3.9 Nuclear Magnetic Resonance Spectroscopy; 3.10 Differential Scanning Calorimetry; 3.11 Electron Spin Resonance Spectroscopy; 3.12 Refractometry; References; 4 Molecular Weight; 4.1 Introduction; 4.2 Molecular Weight Calculations; 4.3 Viscometry; 4.4 Chromatography; 4.5 Ultracentrifugation; 4.6 Osmometry; 4.7 Light Scattering; 4.8 End-Group Analysis; 4.9 Ibrbidimetric Titration; References; 5 Structure; 5.1 Introduction; 5.2 Isomerism; 5.3 Chain Dimensions; 5.4 Crystallinity 5.5 Orientation5.6 Blends; 5.7 Thermal Behaviour; 5.8 Dilatometry; 5.9 Infrared Spectroscopy; 5.10 Raman Spectroscopy; 5.11 Nuclear Magnetic Resonance Spectroscopy; 5.12 Thermal Analysis; 5.12.1 Differential Scanning Calorimetry; 5.12.2 Thermal Mechanical Analysis; 5.12.3 Dynamic Mechanical Analysis; 5.13 Optical Microscopy; 5.14 Transmission Electron Microscopy; 5.15 X-Ray Diffraction; 5.16 Neutron Scattering; References; 6 Surface Properties; 6.1 Introduction; 6.2 Infrared Spectroscopy; 6.2.1 Attenuated Total Reflectance Spectroscopy; 6.2.2 Speculur Reflectance Spectroscopy 6.2.3 Difuse Reflectance Spectroscopy6.2.4 Photoacoustic Spectroscopy; 6.3 Raman Spectroscopy; 6.4 Photoelectron Spectroscopy; 6.5 Secondary-Ion Mass Spectrometry; 6.6 Inverse Gas Chromatography; 6.7 Scanning Electron Microscopy; 6.8 Surface Tension; 6.9 Atomic Force Microscopy; 6.10 Tribology; References; 7 Degradation; 7.1 Introduction; 7.2 Oxidative Degradation; 7.3 Thermal Degradation; 7.4 Radiation Degradation; 7.5 Combustion; 7.6 Dissolution; 7.7 Infrared Spectroscopy; 7.8 Raman Spectroscopy; 7.9 Electron Spin Resonance Spectroscopy; 7.10 Thermal Analysis 7.10.1 Thermogravimetric Analysis

Sommario/riassunto

This book introduces the techniques used for the analysis of polymers. It covers the main aspects of polymer science and technology; identification, polymerization, molecular weight, structure, surface properties, degradation and mechanical properties.* Clear explanations of each analytical technique* Describes the application of techniques to the study of polymers* Encourages learning through numerous self-assessment questions and answers* Structured for flexible learning