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Nota di contenuto	Cover; Related Titles; Title Page; Copyright; Preface; List of Contributors; Chapter 1: Interaction of Radiation with Matter; 1.1 Introduction; 1.2 Spectroscopy: A Definition; 1.3 Electromagnetic Radiation; 1.4 Electromagnetic Spectrum; 1.5 Interaction of Radiation with Matter; 1.6 Magnetic Spectroscopies; 1.7 Pulse Techniques in NMR Spectroscopy; 1.8 Line Widths; 1.9 Selection Rules; 1.10 Summary of Spectroscopic Techniques; References; Chapter 2: Computational Spectroscopy Tools for Molecular Structure Analysis; 2.1 Introduction; 2.2 Potential Energy Surface and Molecular Structure 2.3 Computational Aspects for Spectroscopic Techniques 2.4 Application and Case Studies; Acknowledgments; References; Chapter 3: Absolute Configuration and Conformational Analysis of Chiral Compounds via Experimental and Theoretical Prediction of Chiroptical Properties: ORD, ECD, and VCD; 3.1 Introduction; 3.2 Chirality; 3.3 What is a Chiroptical Method?; 3.4 Quantum Mechanical (Ab Initio) Methods for Predicting Chiroptical Properties; 3.5 Electronic Circular Dichroism (ECD); 3.6 Vibrational Circular Dichroism (VCD); 3.7 Optical Rotatory Dispersion (ORD)

3.8 When More than One Method is Needed3.9 Concluding Remarks; References; Chapter 4: Mass Spectrometry Strategies in the Assignment of Molecular Structure: Breaking Chemical Bonds before Bringing the Pieces of the Puzzle Together; 4.1 Introduction; 4.2 Instrumentation and Technology; 4.3 Breaking Chemical Bonds - Fragmentation Reactions; 4.4 Confirmation of Identity; 4.5 Putting the Puzzle Together - Structure Elucidation of Unknowns; 4.6 Conclusions and Perspectives; Abbreviations; References; Chapter 5: Basic Principles of IR/Raman: Applications in Small Molecules Structural Elucidation 5.1 Introduction5.2 Characteristic Vibrational Modes: Diatomics and Chemical Bonds; 5.3 Fundamental Vibrational Modes and Molecular Structure; 5.4 Selection Rules and Finding the Number of Normal Modes in Each Symmetry Species; 5.5 The Vibrational Assignment of Raman and Infrared Spectra; 5.6 Conclusions; References; Chapter 6: Solid-State NMR Applications in the Structural Elucidation of Small Molecules; 6.1 Introduction; 6.2 Line-Narrowing and Sensitivity Enhancement Methods in ssNMR Spectroscopy; 6.3 Probing Dynamics in Solids; 6.4 Application of ssNMR Spectroscopy to Small Molecules 6.5 NMR of Molecules on Surfaces (DNP)6.6 NMR Crystallography; Acronyms; References; Chapter 7: Simplified NMR Procedures for the Assignment of the Absolute Configuration; 7.1 Introduction; 7.2 Single Derivatization Methods for Mono- and Polyfunctional Compounds; 7.3 Resin-Bound Chiral Derivatizing Agents (Mix and Shake Method); 7.4 Non-resin in Tube Assignment (BPG and BINOL Borates); 7.5 Tandem HPLC-NMR: Simultaneous Enantioresolution and Configurational Assignment; 7.6 Assignment Based on the Chemical Shifts from the Auxiliaries; 7.7 Scope and Conclusions; References Chapter 8: Structural Elucidation of Small Organic Molecules Assisted by NMR in Aligned Media

Sommario/riassunto

Intended for advanced readers, this is a review of all relevant techniques for structure analysis in one handy volume. As such, it provides the latest knowledge on spectroscopic and related techniques for chemical structure analysis, such as NMR, optical spectroscopy, mass spectrometry and X-ray crystallography, including the scope and limitation of each method. As a result, readers not only become acquainted with the techniques, but also the advantages of the synergy between them. This enables them to choose the correct analytical method for each problem, saving both time and resources. Speci

2. Record Nr.	UNINA9910686474603321
Autore	Miller Erez C
Titolo	Self-Efficacy and Success: Narratives of Adults with Disabilities / / by Erez C. Miller, Efrat Kass
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ISBN	9783031149658 3031149653
Edizione	[1st ed. 2023.]
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Soggetti	People with disabilities - Education Inclusive education Developmental psychology Social psychology Positive psychology Educational psychology Education and Disability Inclusive Education Development across Lifespan Social Psychology Positive Psychology Educational Psychology
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Success -- Chapter 2: Self-efficacy as a source of success -- Chapter 3: Designing and implementing the study -- Chapter 4: Formal education -- Chapter 5: Support from Professionals Outside the Educational System -- Chapter 6: Parents' contribution: Parental effects, parents' dedication, efficacy enhancing messages -- Chapter 7: Coping with social challenges and loneliness -- Chapter 8: Academic challenges of pupils with disabilities and effective inclusive practices -- Chapter 9: Inner strengths: The importance of self-efficacy, character strengths, and unique traits -- Chapter 10: Challenges and supports --

Sommario/riassunto

Based on the analysis of eighteen authentic and inspiring personal stories, this book illustrates how people with severe childhood disabilities achieved extraordinary career success. Growing up, the people surrounding them and environmental conditions helped them develop their self-efficacy. The book is divided into four parts. It begins by discussing the elusive essence of success, especially for people with disabilities. The authors then discuss selfefficacy, and how it pertains to occupations of people with disabilities. Part two (school years) and part three (higher education) address some of the challenges experienced by students with disabilities. It shows how parents and educational figures helped them enhance their self-efficacy. Part two also discusses current and future trends in inclusive education, and recommendations for practitioners. Part three pays attention to some of the unique traits that helped them overcome obstacles. Finally, the authors focus on employment of people with disabilities and explore some of the consequences of the Covid-19 pandemic in light of this. It includes messages of hope to parents, professionals and individuals with disabilities. Erez C. Miller is a senior lecturer at Achva Academic College in Israel. He works with children with disabilities and their families as a licensed school psychologist. He published several articles on the narratives of adults with disabilities, and on the self-efficacy of teachers and adults with disabilities. Efrat Kass is an expert in the domains of teachers' self-efficacy, teacher training, and bibliotherapy. She has published three books (in Hebrew) and many articles and has presented her scientific work at many conferences around the world. She is married, a mother, grandmother, and an artist.