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Sommario/riassunto	This book comprises the proceedings of the 12th International Conference on Asia-Pacific Microscopy Conference (APMC12) focusing on emerging opportunities and challenges in the field of materials

sciences, life sciences and microscopy techniques. The contents of this volume include papers on aberration corrected TEM & STEM, SEM – FIB, ion beam microscopy, electron diffraction & crystallography, microscopy and imaging associated with bio-nanotechnology, medical applications, host-pathogen interaction, etc. This book will be beneficial to researchers, educators, and practitioners alike.