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Autore	Wang Eryin
Titolo	Angle-Resolved Photoemission Spectroscopy Studies of 2D Material Heterostructures [[electronic resource] /] / by Eryin Wang
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Disciplina	530.41
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Nota di contenuto	Introduction -- Experimental techniques -- Band engineering in van der Waals heterostructures Graphene/h-BN -- Simpler van der Waals heterostructure-Twisted bilayer graphene -- Proximity effect between topological insulator and d-wave superconductors -- Effect of magnetic Cr deposition on Bi ₂ Se ₃ surface -- Conclusion.
Sommario/riassunto	This book focuses on angle-resolved photoemission spectroscopy studies on novel interfacial phenomena in three typical two-dimensional material heterostructures: graphene/h-BN, twisted bilayer graphene, and topological insulator/high-temperature superconductors. Since the discovery of graphene, two-dimensional materials have proven to be quite a large "family". As an alternative to

searching for other family members with distinct properties, the combination of two-dimensional (2D) materials to construct heterostructures offers a new platform for achieving new quantum phenomena, exploring new physics, and designing new quantum devices. By stacking different 2D materials together and utilizing interfacial periodical potential and order-parameter coupling, the resulting heterostructure's electronic properties can be tuned to achieve novel properties distinct from those of its constituent materials. This book offers a valuable reference guide for all researchers and students working in the area of condensed matter physics and materials science.
