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Quantized Hall conductance, current-carrying edge states, and the existence of extended states in a two-dimensional disordered potential

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407	Electronic Structure of Atoms. 2020 , 215-229		

406	Pseudopotentials. 2020 , 230-258
405	Overview of Chapters 1218. 2020 , 259-261
404	Plane Waves and Grids: Basics. 2020 , 262-282
403	Plane Waves and Real-Space Methods: Full Calculations. 2020 , 283-294
402	Localized Orbitals: Tight-Binding. 2020 , 295-319
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400	Augmented Functions: APW, KKR, MTO. 2020, 332-364
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396	Response Functions: Phonons and Magnons. 2020 , 427-445
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