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Autore	Finkel Michael
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Nota di contenuto	Cover -- Title -- Copyright -- Contents -- List of abbreviations -- Preface -- About the editor -- About the contributors -- Part I Principles of island grid formation and their stability requirements -- 1 Introduction -- 1.1 Historic development -- 1.2 Energy transition changes the power grid -- 1.3 Definitions -- 1.3.1 Disconnection of sub-grids -- 1.3.2 Degrees of decoupling sub- grids -- 1.3.3 Definition of electrical islands in the literature -- 1.3.4 Definition of electrical islands in this book -- 1.4 Formation of sub-grids and islanded grids -- 1.5 Stable operation of sub-grids and islanded grids -- 1.5.1 Power system strength, rotating inertia and short-circuit ratio -- 1.5.2 Grid-forming and system- supporting properties of generation units -- 1.6 Opportunities and threats of islanded grids -- 1.6.1 Intended islanding -- 1.6.2 Unintended islanding -- References -- 2 Basics of power system dynamics and stability -- 2.1 Dynamics in power systems -- 2.1.1 Dynamic model basics -- 2.1.2 Time/frequency range of concern -- 2.1.3 Main components involved in power systems dynamics
Sommario/riassunto	The hands-on review of islanding phenomena in electricity grids. Chapters cover definitions and principles of grid types and islanding,

causes of formation, operation and stability, network restoration, detection of islanding, grid and plant protection, modelling and simulation, and practical examples.
