1. Record Nr. UNINA9910682552803321 Autore Sahimi Muhammad Titolo Applications of Percolation Theory [[electronic resource] /] / by Muhammad Sahimi Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2023 **ISBN** 3-031-20386-0 Edizione [2nd ed. 2023.] 1 online resource (XXI, 680 p. 157 illus., 36 illus. in color.) Descrizione fisica Collana Applied Mathematical Sciences, , 2196-968X;; 213 530.15 Disciplina Soggetti Mathematical physics Mathematical Physics Percolació (Física estadística) Llibres electrònics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia

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Percolation and its Applications -- Chapter 21: Directed Percolation: From Turbulent Flow to Catalysis and Brain -- Chapter 22: Percolation in Large-Scale Problems.

The first edition of this book was published in 1994. Since then considerable progress has been made in both theoretical developments of percolation theory, and in its applications. The 2nd edition of this book is a response to such developments. Not only all the chapters of the 1st edition have been completely rewritten and updated all the way to 2022, but also 8 new chapters have been added that describe extensive new applications, including biological materials, networks and graphs, directed percolation, earthquakes, geochemical processes, and large-scale real world problems, from spread of technology to adhoc mobile networks.