1. Record Nr. UNINA9910988291903321 Autore Bullen Rob Titolo The Architecture of Sound : Acoustic Design For Buildings / / by Rob Bullen Singapore:,: Springer Nature Singapore:,: Imprint: Springer,, 2025 Pubbl/distr/stampa **ISBN** 9789819793808 9819793807 Edizione [1st ed. 2025.] Descrizione fisica 1 online resource (XIII, 196 p. 100 illus., 37 illus. in color.) Collana Springer-AAS Acoustics Series, , 2948-2070 Disciplina 534 Soggetti Acoustics Architectural acoustics Sustainable architecture **Architectural Acoustics** Sustainable Architecture/Green Buildings Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1 Introduction -- 2 Background sound -- 3 Intruding sound -- airborne Nota di contenuto -- 4 Intruding sound – structure-borne -- 5 Sound quality -- 6 Speech intelligibility -- 7 Acoustics and sustainable design -- 8 Case study: classrooms -- 9 Case study: hospital wards. This book highlights the range of issues involved in designing interior Sommario/riassunto spaces for acoustics—that is, ensuring that the sound of a space matches its function. The book presents the principles of acoustic design, together with practical advice on how to apply those principles. The fundamental elements of background sound, intruding sound, sound quality, and speech intelligibility are each described, with design goals, calculation procedures, and advice on implementation.

as examples.

Contemporary challenges associated with integrating acoustics and sustainable building design are also covered. Finally, two types of

space—school classrooms and hospital wards—are considered in detail,