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Descrizione fisica	1 online resource (XIV, 320 p.)
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Soggetti	Engineering design Acoustics Vibration Dynamics Music Engineering Design Vibration, Dynamical Systems, Control
Lingua di pubblicazione	Inglese
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Nota di contenuto	The Sound -- The String -- Oscillating Systems -- The Resonator Components -- The Resonator as a Global System -- Upper Resonances -- Analysis Systems -- Quality and Evaluation Methods -- The Modern Guitar -- Building and Using the Mould -- The Soundboard on the Mould -- The Soundboard on the Frame -- The Back -- Closing the Instrument. Final Tuning -- Analysis of Historic and Modern Guitars.
Sommario/riassunto	This book describes the entire process of designing guitars, including the theory and guidelines for implementing it in practice. It discusses areas from acoustics and resonators to new tools and how they assist traditional construction techniques. The book begins by discussing the fundamentals of the sounds of a guitar, strings, and oscillating systems. It then moves on to resonators and acoustics within the guitar, explaining the analysis systems and evaluation methods, and comparing classic and modern techniques. Each area of the guitar is covered, from the soundboard and the back, to the process of closing

the instrument. The book concludes with an analysis of historic and modern guitars. This book is of interest to luthiers wanting to advance their practice, guitar players wishing to learn more about their instruments, and academics in engineering and physics curious about the principles of acoustics when applied to musical instruments.
