

1. Record Nr.	UNINA9910151710803321
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Titolo	Musical Instrument Design : Practical Information for Instrument Making
Pubbl/distr/stampa	Chicago, : See Sharp Press, 1996
ISBN	9781884365836 1884365833 9781884365829 1884365825
Descrizione fisica	1 online resource (615 p.)
Disciplina	784.1923
Soggetti	Musical instruments - Construction Musical instruments -- Construction -- Handbooks, manuals, ect Musical instruments -- Construction Musical instruments
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	COVER; COPYRIGHT; ACKNOWLEDGMENTS; INTRODUCTION; PREFACE; Chapter One MUSICAL SOUND PERCEPTION; SOME BASICS; TIMBRE AND OVERTONES; ATTACK AND DECAY; DIRECTIONAL EFFECTS; Chapter Two ACOUSTIC PRINCIPLES; BASIC PRINCIPLES OF OSCILLATION; RESONANCE; DAMPING AND RADIATION; MODES OF VIBRATION; NODES AND ANTIODES: Practical Applications; PHASE RELATIONSHIPS; IMPEDANCE, TRANSMISSION AND RADIATION; Chapter Three TUNING SYSTEMS AND PITCH LAYOUTS; TUNINGS; PITCH LAYOUTS, GESTURE, & ERGONOMICS; Chapter Four IDIOPHONES; FREE-BAR INSTRUMENTS: MARIMBAS, CHIMES, AND THEIR RELATIVES RODS FIXED AT ONE END: KALIMBAS, TONGUE DRUMS AND OTHERSTUNING FORKS; BELLS, CYMBALS AND GONGS; SAWS AND WOBBLEBOARDS; INSTRUMENTS WITH IRREGULAR VIBRATION PATTERNS; Chapter Five BEATERS, SCRAPERS, & FRICTION MAKERS; MALLETS AND STICKS; FRICTION DEVICES; SCRAPERS; MOUNTING SYSTEMS; Chapter Six AEROPHONES; EXCITING THE VIBRATION; AIR COLUMNS AND CHAMBERS; MATERIALS FOR WIND INSTRUMENT TUBES AND VESSELS;

PITCH CONTROL FOR WIND INSTRUMENTS; PLOSIVE AEROPHONES; SIRENS; OUTER AIR INSTRUMENTS; Chapter Seven MEMBRANOPHONES; DRUMHEADS; DRUM BODIES; ATTACHING THE HEAD; DRUM TUNING DRUM MOUNTINGS & DRUM POSITIONINGMORE DRUM TYPES, SOUNDING METHODS, ACCESSORIES, ETC.; Chapter Eight RESONATORS AND RADIATORS; SOUNDBOARDS AND SOUND CHAMBERS - BACKGROUND AND THEORY; MORE ON PARTICULAR RADIATOR AND RESONATOR TYPES; Chapter Nine CHORDOPHONES; STRING INSTRUMENT FORMS; BASICS OF STRING VIBRATION and STRING SCALING; SOUNDING THE STRING; STRING TENSIONING MECHANISMS; BRIDGES; PITCH CONTROL MECHANISMS FOR CHORDOPHONES: MULTIPLE STRINGS; MORE PITCH CONTROL MECHANISMS: STRING LENGTH & TENSION; TUNINGS AND STRING LAYOUTS; UNORTHODOXIES; Chapter Ten SPECIAL EFFECTS CHORUSING AND BEATING EFFECTSREVERBERATION & SYMPATHETIC VIBRATION; SHIFTING RESONANCE EFFECTS; RATTLES; MIRLITONS; DAMPERS; MOVING SOUND SOURCES AND DIRECTIONAL EFFECTS; Chapter Eleven A FEW MORE THOUGHTS; Appendix One TOOLS AND MATERIALS; Appendix Two FREQUENCY AND TUNINGS CHARTS; Appendix Three AMPLIFICATION, MICROPHONES AND TRANSDUCERS; Appendix Four MORE ON AIR COLUMNS, TONEHOLES AND WOODWIND KEYING MECHANISMS; GLOSSARY; BIBLIOGRAPHY; INDEX; BACK COVER

Sommario/riassunto

This is an encyclopedic, large-format book containing hundreds of illustrations. While not geared toward making conventional instruments, Musical Instrument Design provides all the information that anyone (amateur or professional) should ever need to construct an amazingly wide variety of percussion, string, and wind instruments. Includes many designs along with parts lists and detailed construction instructions.
