

1.	Record Nr.	UNIBAS000008781
	Autore	Campedelli, Luigi
	Titolo	Esercitazioni complementari di geometria / Luigi Campedelli ; a cura di Adriano Barlotti
	Pubbl/distr/stampa	Padova : Cedam, 1975
	Edizione	[5. ed.]
	Descrizione fisica	VIII, 420 p., 13 c. di tav. : ill. ; 24 cm.
	Disciplina	516.076
	Soggetti	Geometria - Esercizi e teoria
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910254052603321
	Autore	de Graaf Coen
	Titolo	Magnetic Interactions in Molecules and Solids / / by Coen de Graaf, Ria Broer
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-22951-6
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (XVI, 246 p. 75 illus., 32 illus. in color.)
	Collana	Theoretical Chemistry and Computational Modelling, , 2214-4714
	Disciplina	541.378
	Soggetti	Chemistry, Physical and theoretical Chemistry, Inorganic Building materials Theoretical and Computational Chemistry Inorganic Chemistry Structural Materials
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes Index.

Nota di contenuto

1. Basic Concepts -- 2. One Magnetic Center -- 3. Two (or more) Magnetic Centers -- 4. From Orbital Models to Accurate Predictions -- 5. Towards a Quantitative Understanding -- 6. Magnetism and Conduction.

Sommario/riassunto

This textbook is the second volume in the Theoretical Chemistry and Computational Modeling series and aims to explain the theoretical basis of magnetic interactions at a level that will be useful for master students in physical, inorganic and organic chemistry. The book gives a treatment of magnetic interactions in terms of the phenomenological spin Hamiltonians that have been such powerful tools for chemistry and physics in the past half century, starting from the simple Heisenberg and Ising Hamiltonians and ending with Hamiltonians that include biquadratic, cyclic or anisotropic exchange. On the other hand, it also explains how quantum chemical methods, reaching from simple mean field methods to accurate models that include the effects of electron correlation and spin-orbit coupling, can help to understand the magnetic properties. Connecting the two perspectives is an essential aspect of the book, since it leads to a deeper understanding of the relation between physical phenomena and basic properties. It also makes clear that in many cases one can derive magnetic coupling parameters not only from experiment, but also from accurate ab initio calculations. The book starts with introducing a selection of basic concepts and tools. Throughout the book the text is interlarded with exercises, stimulating the students to not only read but also verify the assertions and perform (parts of) the derivations by themselves. In addition, each chapter ends with a number of problems that can be used to check whether the material has been understood.

3. Record Nr.	UNINA9911019517203321
Autore	Reveillac Jean-Michel
Titolo	Synthesizers and Subtractive Synthesis, Volume 2 : Application and Practice
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
ISBN	9781394297740 1394297742 9781394297726 1394297726
Edizione	[1st ed.]
Descrizione fisica	1 online resource (302 pages)
Disciplina	786.74
Soggetti	Electronic music Software synthesizers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Introduction -- Chapter 1 Subtractive Synthesis: The Beginning -- 1.1. Exercise 1 - generate sound with a single oscillator -- 1.1.1. Behringer Neutron -- 1.1.2. Behringer 2600 (ARP 2600) -- 1.1.3. Max/MSP -- 1.1.4. Pure Data -- 1.1.5. VCV Rack -- 1.2. Exercise 2 - associate an envelope -- 1.2.1. Behringer Neutron -- 1.2.2. Behringer 2600 (ARP 2600) -- 1.2.3. Max/MSP -- 1.2.4. Pure Data -- 1.2.5. VCV Rack -- 1.3. Exercise 3 - add a filter -- 1.3.1. Behringer Neutron -- 1.3.2. Max/MSP -- 1.3.3. Pure Data -- 1.3.4. VCV Rack -- 1.4. A little further with Max/MSP, Pure Data and VCV Rack -- 1.4.1. ADSR with Max/MSP -- 1.4.2. Filter with Max/MSP -- 1.4.3. Configurable filter with Max/MSP -- 1.4.4. Custom waveforms with Pure Data -- 1.4.5. ADSR with Pure Data -- 1.4.6. Signals and filters with Pure Data -- 1.4.7. Additional modules with the VCV Rack -- 1.5. Final remarks -- Chapter 2 Subtractive Synthesis: The Fundamentals -- 2.1. Exercise 4 - adding an envelope to the filter -- 2.1.1. Minimoog -- 2.1.2. Behringer 2600 (ARP 2600) -- 2.1.3. Max/MSP -- 2.1.4. Pure Data -- 2.1.5. VCV Rack -- 2.2. Exercise 5 - integrating an LFO -- 2.2.1. Minimoog -- 2.2.2.

Novation Bass Station II -- 2.2.3. Max/MSP -- 2.2.4. Pure Data -- 2.2.5. VCV Rack -- 2.2.6. Reaktor -- 2.3. Exercise 6 - multiple oscillators -- 2.3.1. Minimoog (or clones) -- 2.3.2. Novation Bass Station II -- 2.3.3. Max/MSP -- 2.3.4. Pure Data -- 2.3.5. VCV Rack -- 2.3.6. Reaktor -- 2.4. Exercise 7 - noise generator -- 2.4.1. Minimoog -- 2.4.2. Behringer 2600 (ARP 2600) -- 2.4.3. Novation Bass Station II -- 2.4.4. Max/MSP -- 2.4.5. Pure Data -- 2.5. To conclude classic synthesis -- Chapter 3 Advanced Subtractive Synthesis -- 3.1. Exercise 8 - ring modulation -- 3.1.1. Behringer 2600 (ARP 2600) -- 3.1.2. Arturia MatrixBrute. 3.1.3. Novation Bass Station II -- 3.1.4. Max/MSP -- 3.1.5. Pure Data -- 3.1.6. VCV Rack -- 3.1.7. Reaktor -- 3.2. Exercise 9 - sample and hold -- 3.2.1. Behringer 2600 (ARP 2600) -- 3.2.2. Arturia MatrixBrute -- 3.2.3. Max/MSP -- 3.2.4. Pure Data -- 3.2.5. VCV Rack -- 3.2.6. Reaktor -- 3.3. Sound effects -- 3.3.1. Exercise 10 - reverberation -- 3.3.2. Exercise 11 - chorus -- 3.3.3. Exercise 12 - flanger -- 3.3.4. Exercise 13 - phaser -- 3.4. Conclusion -- Chapter 4 Duophony, Paraphony and Polyphony -- 4.1. Exercise 14 - duophony and paraphony -- 4.1.1. Behringer 2600 (ARP 2600) -- 4.1.2. Novation Bass Station II -- 4.1.3. Behringer Neutron -- 4.1.4. Arturia MatrixBrute -- 4.2. Exercise 15 - polyphony -- 4.2.1. Max/MSP -- 4.2.2. Pure Data -- 4.2.3. VCV Rack -- 4.2.4. Reaktor -- 4.3. Conclusion -- Chapter 5 Sequencers and Arpeggiators -- 5.1. Exercise 16 - sequencers and arpeggiators -- 5.1.1. VCV Rack -- 5.1.2. Reaktor -- 5.1.3. Max/MSP -- 5.1.4. Pure Data -- 5.2. Conclusion -- Conclusion -- Appendix 1 USB Connectivity -- Appendix 2 Pure Data Extensions -- A2.1. Oscilloscope -- A2.2. Activating/deactivating the DSP -- A2.3. Virtual keyboard -- A2.4. A virtual keyboard patch -- Appendix 3 Keyboards and Interfaces -- A3.1. MIDI keyboards -- A3.2. Audio-MIDI interface -- Appendix 4 MIDI Notes, Numbers and Frequencies -- Glossary -- References -- Index -- Other titles from ISTE in Waves -- EULA.

Sommario/riassunto

This book, authored by Jean-Michel Réveillac, delves into the intricacies of synthesizers and subtractive synthesis, focusing on application and practice. It serves as a comprehensive guide for individuals interested in electronic music production, particularly those keen on understanding and utilizing subtractive synthesis techniques. The text covers various exercises involving sound generation, envelope association, filtering, and the implementation of advanced synthesis techniques like ring modulation and sample and hold. The book is designed for both beginners and advanced users, offering insights into using different synthesizers and software such as Behringer Neutron, ARP 2600, Max/MSP, Pure Data, and VCV Rack. The author's purpose is to provide a practical resource for music producers, sound engineers, and students in the field of electronic music.
