

## Index of Compositions

- A l'entree*, 115  
*Almifonis/Rosa*, 147 n. 91, 149, 232 n. 63  
*Altissonis/Hin*, 50 n. 51  
*Amer/Durement*, 146, 147, 148, 233 n. 66  
 attribution to Vitry, 219, 232 n. 63  
 destabilisation of *modus*, 219–22  
 distribution of sonorities, 221–2  
 dots of perfection, 220  
*Amor potest/Ad amorem/TENOR (Mo 8,328)*,  
 156 n. 111, 241 n. 2  
*Amours qui/Solem iusticie/SOLEM (Mo 7,289*  
 = 8,338), 127 n. 33  
*Apollinis/Zodiacum*, 1–4, 6, 7, 16, 46, 147 n. 91,  
 148, 154 n. 106, 202, 240  
 cited by Heinrich Eger von Kalkar, 5  
*Apta/Flos*, 17, 34, 36, 47–8, 60, 68, 117, 147  
 n. 91, 149, 238, 240  
 as an exemplification of *ars nova*, 68  
 attribution to Vitry, 48 n. 45  
 cited by Johannes Boen, 48 n. 45, 61  
 cited in *Tractatus figurarum*, 35, 47, 48, 51  
 contratenor, 47 n. 44  
 counterpoint, 61  
 dating of, 48 n. 45  
 hockets, 58–9  
 melodic motion, 66  
 mythological references, 50  
 poem, 50  
 rhythmic language, 51  
*subtilitas*  
 of texts, 64  
 syncopation, 59–61  
 tenor structure, 58  
 texture, 56–9, 64  
 variegation, 64, 66  
*Aucun ont trouvé/Lonc tans/ANNUNTIANTES*  
 (Mo 7,254) (Petrus de Cruce), 126–8,  
 127 n. 33  
*Aucun, qui ne seivent/Iure tuis laudibus/*  
*[VIRGO] MARIA (Mo 8,317)*, 127 n. 33  
*Aucuns vont souvent/Amor, qui/KYRIE*  
*ELEYSON (Mo 7,264)*, 127 n. 33  
*Bone pastor/Bone pastor/BONE (M18)*  
 (Machaut), 150, 233 n. 66  
*Caligo/Virgo/TENOR*, 124, 127 n. 33  
*Christe/Veni (M21)* (Machaut), 213  
*Colla/Bona* (Vitry), 146, 147, 148, 210–12, 215,  
 235  
 citation in theory treatises, 212  
 distribution of sonorities, 211  
*Coument se poet/Se je chante/QUI PRENDOIT*  
 (Mo 7,277), 15 n. 45  
*Cum statua/Hugo* (Vitry), 146 n. 90, 148, 213,  
 223, 230, 235, 239 n. 8  
 destabilisation of *modus*, 222  
*Desolata/Que*, 14 n. 39  
*Douce/Garison* (Vitry), 147 n. 91, 147, 149, 213  
*Felix/Inviolata (M23)* (Machaut), 213  
*Firmissime/Adesto* (attrib. Vitry), 146, 148  
*Floret/Florens* (attrib. Vitry), 146 n. 90, 148  
*Flos/Celsa*, 147 n. 91, 148  
*Fortune/Ma dolour*, 146 n. 90, 148, 213–15, 235  
 dots of perfection, 213, 215  
*Garrit/In nova* (attrib. Vitry), 146, 151, 153,  
 213, 233 n. 66  
 destabilisation of *modus*, 216–19  
 dots of perfection, 216, 219  
 interpretation of *tempus*, 153  
 stems on semibreves, 138 n. 68  
 use of red ink, 216  
*Hareu/Helas (M10)* (Machaut), 232–4, 235,  
 240  
*Impudenter/Virtutibus* (attrib. Vitry), 48 n. 45,  
 147 n. 91, 149, 157, 213  
*In virtute/Decens* (attrib. Vitry), 147 n. 91, 149,  
 232, 239 n. 8  
 divided form, 228 n. 58  
*Inter amenitatis/Revertenti*, 14 n. 39

- Je commence/Et se je serai*, 147 n. 91, 148, 154 n. 106
- Je cuidoie/Se j'ai folement/SOLEM (Mo 8,332)*, 15 n. 45, 127 n. 33
- Je voi/Fauvel nous*, 14 n. 39
- L'amoureuse/En l'estat*, 147 n. 91, 149, 154 n. 106
- Li enseignement/De touz*, 147 n. 91, 149, 154 n. 106, 157
- Li savours/Li grant (Mo 8,323)*, 207
- Lonc tans/Tant ai/SURREXIT (Mo 7,298)*, 127 n. 33
- Mater/Gaude*, 146, 147, 148, 153
- Mon chant/Qui*, 149  
 dating of, 157
- O canenda/Rex (Vitry)*, 61 n. 66, 147 n. 91, 149, 199 n. 5, 229–32, 235, 240  
 dot of division, 229  
 dots of perfection, 229  
 syncopation, 229–30
- Petre/Lugentium (Vitry)*, 48 n. 45, 147, 154–5, 232 n. 63  
 dating of, 157, 199 n. 5  
 hockets, 58
- Plaignant, plaignant*, 115–17
- Portio/Ida*, 147 n. 91, 149, 154 n. 106, 235
- Post missarum/Post misse*, 147 n. 91, 149, 157, 213
- Pour chou/Li joli tans/KYRIELEISON (Mo 7,299)*, 127 n. 33
- Quare fremuerunt/TENOR*  
 ascending stems, 140 n. 70
- Qui/Aucune (M5) (Machaut)*, 213
- S'Amours eüst/Au renouveler/ECCE [IAM] (Mo 7,253)*, 127 n. 33
- Se cuers/Rex*, 146, 148
- Se grace/Cum venerint*, 146 n. 90, 148
- Se je chante/Bien doi amer/ET SPERABIT (Mo 8,311)*, 15 n. 45
- Se paour/Diex*, 149
- Super/Presidentes*, 146, 148
- Trahunt in praecipitia/An diex/[TENOR]*, 153
- Trahunt/Ve qui gregi*, 146, 148, 153
- Tribum/Quoniam (Vitry)*, 17, 36, 47–8, 68, 146, 148, 210, 215 n. 41  
 as *ars antiqua* motet, 51–3, 120 n. 16  
 as crude, 48, 68  
 as emblematic of the *ars nova*, 51  
 as not subtle, 48  
 attribution to Vitry, 48  
 cited in *Tractatus figurarum*, 35  
 context in **Fauv**, 48–9  
 dating of, 47  
 in chronologies of the *ars nova*, 51 n. 54  
 in music history textbooks, 51 n. 54  
 part-writing, 64  
 rhythmic language, 51–3, 56  
 stems on semibreves, 138 n. 68  
 texts, 48–9  
   admonitory, 50, 64  
   texture, 53–4, 64  
   vertical sonorities, 63–4
- Tuba/In arboris* (attrib. Vitry), 147 n. 91, 149, 213  
*modus* changes, 219 n. 44
- Virginale/Descendi (Mo 8,330)*, 53–6, 205
- Vos/Gratissima (Vitry)*, 13, 149, 232, 235, 240  
 dating of, 202  
 divided form, 227–8  
 dot of perfection, 201  
 mensural ambiguity, 224–7  
*modus*, offset, 222–7  
 resonances with Jean de Savoie's *Partitura amorosa*, 227 n. 54  
 tenor, 199–201  
 tenor sketched in **Escorial**, 198–9
- Zolomina/Nazarea*, 147 n. 91, 149

## General Index

- Abenragel  
*De iudiciis astrorum*, 81
- Adam de la Halle, 19 n. 51
- aesthetics, medieval  
 beauty, 37, 43, 50  
 effects of surface, 17, 40, 43–5, 48, 65, 66, 239  
 flexibility, 64–6  
 novelty, 7, 17, 18, 77, 115, 121, 122, 238  
*subtilitas*. *See subtilitas* and *see under ars nova*  
 texture, 64–7  
*varietas*, 19, 43, 47, 67, 68
- Agnès of Navarre  
 daughter of Jeanne de France, queen of Navarre, 50 n. 51  
 married to Gaston Fébus, 50 n. 51
- Albumasar, 81  
*Flores astrologiae*, 81  
*Libre electione de lune*, 84
- Alfonso X, King of Castile, 87, 88, 91, 93, 111  
 court of, 89
- Alienor de Bretagne, abbess of Fontevraud, 32, 98  
 as dedicatee of the *Omnes homines libelli*, 32  
 patron of Jean des Murs, 73
- Angoulême, 72
- AnonOP*, 22, 31, 152 n. 97  
 dating of, 27  
*divisio modi*, 209  
 on partial and remote imperfection, 154  
 responding to Jean des Murs's *Conclusiones*, 208
- AnonV*, 235
- Anonymous IV, 22, 125  
 on *fractio*, 42  
 on *subtilitas*, 42
- Anonymous of St. Emmeram, 22, 41, 119 n. 11  
*copula*, 41–2
- Apel, Willi, 129
- Apollon, 1, 2, 3, 50
- Aquinas, Thomas. *See* Thomas Aquinas
- Arachne, 66
- Aristotle  
*Metaphysics*, 161 n. 5, 161, 162–3, 168 n. 26, 170 n. 32, 191–2  
 on form and matter, 162–3  
 on potency and act, 162–3  
 on substance, 162–3  
*Physics*  
 commentaries on, 204  
 on circular motion, 204  
 on perfection, 204
- Arnaud of Saint-Martin-du-Ré, 2, 3, 4
- Arnold of Villanova, 184
- Arnoul of Quincampoix, 84, 85
- ars antiqua*, 7, 10, 19, 20, 21, 158  
 and *ars nova*  
 as incommensurable, 20  
 as artful and delightful, 37  
 as crude, 17, 35, 36, 37, 38, 47, 48, 68  
 as cynical, 237  
 as gauche, 237  
 criticisms of, by the *moderni*, 119  
 definition of *musica mensurabilis*, 8  
 features of, 15  
 musical time  
 conceptualisation of, 201  
 organisation of, 20, 202, 203  
 notation, 15, 115, 117, 156, 237. *See also*  
 notation, Franconian  
 updating of, 238  
 retention of note names and shapes by Des Murs, 106
- style  
 distribution of sonorities, 204–5  
 regularity of perfect consonances, 201, 205  
 texture, 56
- theory, 125, 147  
 use of Aristotelian terminology, 160, 185, 187  
 visualisation, 162, 185–8. *See also*  
 diagrams, music, tree
- utilitas*, 37
- ars nova*  
 aesthetics, 34

- brilliance, 4, 237  
 clarity, 237  
 complexity, 1, 36, 37, 58, 68, 117, 121, 239, 240  
 flexibility, 64  
 light, 4  
 novelty, 121, 122  
 radiance, 237  
*subtilitas*, 17, 36  
 variegation of texture, 64  
 and *ars antiqua*  
   as incommensurable, 20, 119, 159, 240  
   continuity with, 120 n. 15, 120, 158  
 as revolution, 7–8, 20, 102, 118, 155, 158, 159, 185  
 chronology of, 16, 20, 51 n. 54, 156–8, 238  
 definitions of, 16, 147, 150  
 disputes between *moderni*, 30, 113, 125  
 emergence of, 4–5  
   around the year 1330, 5, 6, 9, 33, 157–8, 202, 238  
 generation of composers and theorists, 1  
 historiographical narratives, 16, 51 n. 54, 120, 238  
 innovations of, 5, 8, 13, 16, 19, 20, 34, 120, 158, 201, 202, 222, 235, 238, 239  
 motets, 238  
   analysis, 16, 36, 48  
   historiography of, 215 n. 41  
   of tenor structure, 215  
   cited in theory treatises, 5, 15, 17, 34, 35, 47, 51, 61, 157, 212, 213, 215, 229, 235  
   definitions of, 156  
   distribution of sonorities, 224  
   structural importance of motetus, 215  
 musical time  
   as cumulative linear entity, 201, 233–6  
   conceptualisation of, 201–2  
   organisation of, 20, 202  
 notation. *See* notation  
 style  
   destabilisation of *modus*, 215–22  
   distribution of sonorities, 222  
   linked to moral character, 17, 39, 49, 68  
   mensuration, irregular, 202  
   mensurations, juxtaposition of different, 210–15  
   metrical instability, 202  
   metrical misalignment between voices, 202  
   *modus*  
     offset, 222–7  
     transgression of, 202  
   rhythmic manipulations, 238  
   separation of rhythmic duration from mensural units, 236  
   variegation of texture, 64  
 techniques, 16. *See also* *hocket*  
   imperfection, partial and remote, 239  
   mensural manipulations, 239  
   rhythmic displacement, 21  
   syncopation, 21, 56, 59–61, 64, 68, 239  
 theory  
   development of, 4–5, 156–8  
   use of Aristotelian terminology, 160  
 theory treatises. *See also* *Vitriacan Ars nova* treatise(s)  
   dating of, 7, 21  
*Ars nova* treatise, attributed to Philippe de Vitry. *See* *Vitriacan Ars nova* treatise(s)  
*Ars vetus et nova*. *See* *Jacobus*, author of *Speculum musicae*, citations of a lost *ars nova* treatise  
 Artois, court of, 6  
 astrolabe, 84, 94, 95  
 astrology, 18, 73, 75, 77, 80, 81, 82, 85, 91, 99, 101  
   judicial, 81  
   rise in popularity in later Middle Ages, 99  
 astronomy, 4, 18, 75, 81, 82, 83, 85, 101, 198  
 Alfonsine, 88  
   in Paris, 75, 88–9, 96  
   tables, 86, 88, 89, 94, 97  
 cardinal points, 3  
 Castilian, 18, 88–9, 101  
   access to in Paris, 89  
   canons, 88, 89  
   innovations of, 93  
   trepidation/precession, 111  
 correct determination of the solar year, 91–2, 93, 94  
 instruments, 76, 83, 84, 94, 95  
 Jewish scholars of, 84  
 observations, 71, 73, 76, 77, 79, 83, 94, 95, 97  
 patrons, 18, 73  
   of Capetian descent, 73, 83, 85  
   solar eclipse of 1333, 70, 71  
   study by women, 97  
 Athena, 66  
*auctoritas*, 77, 95, 106, 111, 142, 158  
 automata, 17  
 Averroes  
   commentary on Aristotle's *Metaphysics*, 161

- Avignon, papal court, 12  
 of Clement VI, 18  
   as centre for music and astronomy, 18  
   as *Nova Roma*, 18  
   calendar reform, 13, 78–9, 97  
 Vitry as diplomat to, 12
- Azarquel  
*Canons on the Tables of Toledo*, 81, 82
- Barcelona* anonymous, 22, 23, 26, 127 n. 33  
 on *Aucun ont trouvé*, 128  
 on undifferentiated semibreves, more than three, 128
- Bayeux, 89
- Bec Abbey, 32, 33, 73, 80, 84, 101 n. 98, 102, 246
- Bent, Margaret, 11, 48, 127, 129, 130
- Berkeley treatise, 22, 207 n. 22  
 dot of division, 209  
 dot of perfection, 209  
*punctus additionis*, 209
- Bernard of Clairvaux  
 on *subtilitas*, 40
- Bernard of Cluny, 1–4, 5, 240
- Besseler, Heinrich, 27, 28, 87, 239
- Binski, Paul, 43, 64, 66
- BL Royal 12.C.XVII, 81
- Black Death, 12
- BnF fr. 571, 124, 138. *See* **Pn 571**
- BnF fr. 1586 (MachC), 238  
 copying date, 238
- BnF fr. 9220, 189, 194
- BnF lat. 7198, 81
- BnF lat. 7378A, 9 n. 21, 28–31, 33, 87 n. 52  
 omission of music examples, 105 n. 103
- BnF lat. 7380, 81
- BnF lat. 7434, 81
- BnF lat. 15128, 9 n. 21, 24, 124, 134, 136
- BnF lat. 15461, 81
- BnF lat. 16204, 81
- BnF lat. 16206, 81, 82
- BnF lat. 16211, 81, 82
- BnF lat. 16646, 81, 82
- BnF lat. 16663, 82  
 Parisian provenance, 9 n. 21
- BnF n.a.l. 3145 (*The Hours of Jeanne de Navarre*). *See* under Jeanne de France, queen of Navarre
- Bodley 77**, 30 n. 80
- Bodley 300**, 30 n. 80, 105 n. 103
- Bodley 842**, 31
- Boethius, 85 n. 47  
*De institutione musica*, 9, 198 n. 3  
 loaned to Vitry by Des Murs, 13
- De unitate et uno*. *See* Dominicus Gundissalinus
- Isagoge*, 166, 191–2  
 mentioned in *Apollinis/Zodiacum*, 3
- Bonne of Luxembourg  
 Psalter and Hours of, 228
- Boudet, Jean-Patrice, 75
- Bourbon, court of, 6
- Br**, 146, 147, 153, 238  
 motets  
   distribution of sonorities, 210  
 notation  
   stems, 123  
   tied notes, 153
- Bragard, Roger, 10
- Bruges, 4 n. 6
- Burgundy, court of, 6
- Busse Berger, Anna Maria, 19, 239
- calendar reform. *See* under Avignon, papal court
- Calliope, 50
- Callus, D. A., 165
- Cambrai, 12
- camera obscura*, 70
- Capetians. *See* House of Capet
- Caplin, William, 235
- Carey, Hilary, 77
- Carruthers, Mary, 43, 189
- Catalonia, 23
- Cerberus, 50
- Chabás, José, 75, 88, 89, 96
- Champagne, 72
- Charles II of Navarre ('the Bad'), 70, 79
- Charles IV, king of France, 72 n. 9, 83
- Chaucer, Geoffrey, 66, 91 n. 70
- Chicago 54.1**, 31 n. 83
- Christine de Pizan, 68
- Clement VI, 13, 18, 99. *See also* under Avignon, papal court  
 patron of Jean des Murs, 73, 78, 82, 84, 97  
 Vatican Borghese 247, 18
- Cleveland Museum of Art, 43
- Clio, 50
- Collège de Sorbonne. *See* under University of Paris
- color*, 43. *See also* under Egidius de Murino, on compositional process  
 of *Apta/Flos* cited by Johannes Boen, 48 n. 45  
 of surfaces, 43  
 of *Vos/Gratissima*, 199–201, 224, 227, 228
- contrapunctus*, 59–61, 226
- copula*, 42

- Courtenay, William, 7  
 courts, late medieval. *See also* Avignon, papal court and Évreux, court of  
   clerkly environment, 18  
   interest in novelties, 77  
   patronage of astronomy and astrology, 73  
   taste for luxury, 17  
   taste for *subtilitas*, 68  
   taste for the avant-garde, 77  
 Crosby, Alfred, 109, 110  
 Cu Mm.IV.43, 81
- degree. *See* Jean des Murs, notational theory, *gradus* system and *see under*  
 philosophy, medieval, scale of  
 perfection and science, medieval,  
 changes in accidental form and  
 science, medieval, latitude of form
- Denis le Grant, 5 n. 10, 13 n. 34, 119, 198–9  
 acquaintance of Philippe de Vitry, 4  
 Bishop of Senlis, 4  
 book loans from Jean des Murs, 4, 198  
 master of the French royal chapel, 4  
 mentioned in *Apollinis/Zodiacum*, 2, 3
- Des Murs. *See* Jean des Murs
- diagrams, 184–96  
 music, 20, 162, 187 n. 81  
 of intensive degrees, 184  
 representations of being, 193  
 tree, 20, 187 n. 81  
   dichotomous relationships, 191  
   hierarchical relationships, 191  
   Johannes de Vetulus Anagnia, 195  
   John of Tewkesbury, 195  
   Marchetto da Padova, 194  
   mnemonic device, 189  
   Tree of Jesse, 189  
   Tree of Knowledge, 189  
   Tree of Life, 189  
   Tree of Porphyry (*arbor porphyriana*),  
   191–3  
   Tree of Virtues/Vices, 189
- directed progressions, 56, 59, 211, 216, 221,  
 222, 226, 227, 230, 232, 235
- Discantus positio vulgaris*, 204 n. 15
- doctor modernus*. *See under* Jacobus, author of  
*Speculum musicae*, citations of a lost  
*ars nova* treatise
- Dominicans  
 on the unity of form, 163
- Dominicus Gundissalinus  
*De unitate et uno*, 166, 167
- Edward I, king of England, 11  
 Edward II, king of England, 11  
 Egidius de Murino, 2, 3, 4, 68  
   *De modo componendi*, 46  
   on compositional process  
   color, 46  
   on motet composition, 46
- Eleanor of Castile, queen consort of Edward I,  
 11
- Elias Salamo, 207 n. 21
- Ely Cathedral, Lady Chapel, 65, 66  
 embroidery, 17
- Enguerrand de Marigny, 49
- Enrique de Castile, 11
- Escorial**, 78, 79, 80, 81, 94, 114 n. 128  
 annotation dating c. 1330, 198  
 entries on fol. 223v, 198–9
- Euclid  
*Geometry*, 81, 82
- Évreux, 72, 82  
 and Jean des Murs, 80, 84, 93  
 Cathedral of Notre-Dame, 79, 114 n. 128  
 court of, 6, 12, 18, 79, 114 n. 128,  
 114  
   Jean des Murs at, 73  
   Geoffroy Faé, Bishop of, 102  
   Jewish community, 84  
   Peter of Limoges, 82  
   Robertus Douchet, 82  
   St. Germain-de-Navarre, 70–1, 84  
   vernal equinox of 1319, 79, 94
- experientia*. *See* Jean des Murs, sensible  
 experience (*experientia*)
- Faenza anonymous, 22, 126  
*divisio modi*, 208  
 on *Aucun ont trouvé*, 127, 128  
 undifferentiated semibreves, more than  
 three, 128
- Fauv**, 16 n. 46, 17, 53 n. 57, 100, 145 n. 84, 146,  
 153, 210, 216  
 as emblematic of *ars nova*, 15, 120  
 copying date, 49  
 motets, 14, 15, 16, 34, 120 n. 13, 120  
 distribution of sonorities, 210  
 modern, 14 n. 39  
 newest, 120  
 similarities to *ars antiqua* style, 120  
 stylistic innovation, 14  
 with concordances in *ars nova* notation,  
 146  
 notation, 15, 138, 147, 156

- Fauv** (cont.)  
 dot  
   of division, 144  
 semibreves, 130, 144  
   interpretation of, 53 n. 57  
   stems, ascending, 123  
   stems, descending, 123  
 tied notes, 153  
 use of red ink, 216  
 Fécamp Abbey, 82  
 Firmin de Beauval, 33 n. 91, 78, 97  
   *Tractatus de reformatione kalendarii* (co-written with Jean des Murs), 78  
 flower  
   as contrapuntal decoration, 46  
   as Nature's *subtilitas*, 46  
   motet imagery, 50, 56  
   of musicians, Vitry (*flos musicorum*), 13  
 Foix, court of, 50 n. 51  
 Fontevraud Abbey, 32, 33, 73, 80, 84, 98, 101, 114 n. 128  
 Fortune, 49  
 Fountain of Youth, 49  
 Francesco Petrarch, 66  
 Franco of Cologne, 22, 105, 109 n. 119, 130, 141, 151, 156, 187, 202, 205  
   *Ars cantus mensurabilis*, 23, 118  
   commentaries on, 126  
   *divisio modi*, 207, 208  
   mensural perfection, and perfect consonances, 205  
   on the *species* of mensural music, 185  
   on the ternary perfection (*perfectio*), 203–4  
   rules of perfection and imperfection, 141  
   *signum perfectionis*, 207–8  
**Fribourg**, 229  
 Fuller, Sarah, 24, 25, 26, 142, 205  
 Galen, 184  
   four degrees of medicinal qualities, 108  
 Gaston Fébus, count of Foix, 50 n. 51  
   married to Agnès of Navarre, 50 n. 51  
 Geoffroy Faé, abbot of Bec Abbey  
   dedictee of Des Murs's *Kalendarium et Patefit*, 102  
   later Bishop of Évreux, 102  
   patron of Jean des Murs, 73  
 Geoffrey of Meaux, 83, 85  
 Gerard of Abbeville, 81, 82  
**Ghent 70 (71)**, 31  
 Giles of Rome, 163  
 Giovanni Boccaccio, 66  
 Godefroy de Baralle, 2, 3, 4  
 Godfrey of Fontaines, 163, 173, 179, 180  
   criticism of John Peckham's prohibition on unity of form thesis, 165  
   from Liège, 173  
   latitude of form  
     succession of forms theory, 173, 174, 180  
   master regent in theology at the University of Paris, 169  
   on individuation, 169  
   on names and significations, 182  
   on the indivisibility of form, 174  
   on unity, 169  
   *Quodlibet XV*, 182  
 Goldstein, Bernard, 75, 89, 96, 97  
 Göllner, Marie Louise, 238  
 Guarin of Soissons, 2, 3, 4  
 Guillaume de Machaut, 2  
   as clerk, 19 n. 51  
   collected works  
     manuscripts, 16 n. 46  
   *Fonteinne Amoureuse*  
     Morpheus statue, 45  
     *subtilitas*, 40  
   knowledge of Denis le Grant's compositions, 4  
   knowledge of Vitry's motets, 4  
   mentioned in *Apollinis/Zodiacum*, 3, 4  
   motets, 215 n. 41  
   on Nature, 46  
   on *subtilitas*, 68  
   *Prologue*, 45  
   *Remede de Fortune*, 17, 237  
     Hope  
       and *ars nova* notation, 237  
       juxtaposition of *ars antiqua* and *ars nova* notation, 238  
       novelty of the *ars nova*, 238  
   songs  
     metrical displacements, 238  
     rhythmic flexibility, 238  
 Guillaume de St Cloud, 70, 72, 85, 91, 93, 94, 95, 111  
   *Almanach planetarum*, 88 n. 54  
   *Kalendarium regine*, 72  
   possible mentor to Jean des Murs, 83  
 Gülke, Peter, 239  
 Günther, Ursula, 36  
 Gushee, Lawrence, 73, 75, 86, 198  
 Hagia Sophia, described by Propocius, 43  
 Hagin le Juif, 84  
 Hainaut, 10  
 Harrison, Frank, 213

- Heinrich Eger von Kalkar, 5–6, 9, 202  
*Cantagium*, 5
- Henri Bate, 84 n. 45
- Henri d'Helène, 2, 3, 4
- Henri Mondeville, 84
- Hesbaye, 11
- Hesdin, 17
- Hieronymus of Moravia, 9 n. 21, 22, 82, 109  
 n. 119, 187 n. 82  
 at the University of Paris, 9
- hocket, 43, 56, 59, 61, 67, 68, 117, 147, 220, 224  
 n. 51, 226, 227
- Hoppin, Richard, 233
- Hours of Jeanne de Navarre*. *See under* Jeanne de France, queen of Navarre
- House of Capet, 6, 72, 73, 83  
 adultery scandal of 1314, 72 n. 9  
 physicians employed by, 84 n. 46
- House of Valois, 6, 12, 72
- Hugh of St. Victor  
*De arce Noe morali*, 189  
*Didascalion*, 198 n. 3  
 loaned to Vitry by Des Murs, 13
- Hundred Years War, 6
- Husson, Matthieu, 75, 89
- Ibn Ezra, 84
- innovation. *See also* *ars nova*, innovations of; *ars nova*, style; Jean des Murs, innovations
- mathematics, 109
- technology, 17  
 automata, 17  
 double-entry bookkeeping, 110  
 marine charts, 110  
 mechanical clock, 17, 110  
 mechanics, 44, 108  
 table fountain, 44
- Isaac ben Sid, 88
- Isidore of Seville, 40  
*Etymologiae*, 40
- isorhythm, 15 n. 44, 219, 222
- Iv**, 16 n. 46, 47 n. 44, 147, 154, 201
- J. de Rothomago, 32, 101 n. 98
- Jacobus de Ispania, author of *Speculum musicae*, 11. *See* Jacobus, author of *Speculum musicae*  
 from Hesbaye, 11
- Jacobus de Montibus, canon of St.-Paul, Liège, 10, 11  
 at the university of Paris, 11
- Jacobus de Montibus, music theorist, 11  
 possible author of *Speculum musicae*, 10. *See also* Jacobus de Montibus, canon of St.-Paul, Liège
- Jacobus de Sancto Martino  
*De perfectione specierum*, 193  
 on the *latitudo entium*, 193
- Jacobus, author of *Speculum musicae*  
 and the *ars nova*, 5, 16  
 and Jean des Murs  
 criticisms of, 25  
 criticisms of partial and remote imperfection, 151  
 on musical time as a divisible continuum, 181–2  
 response to the *Conclusiones*, 31, 179, 181  
 and Liège, 10 n. 23, 11 n. 30, 11  
 and Paris, at the university, 9, 10, 11  
 as an old man, 10  
 birth date, 10  
 citations from *De unitate et uno*, 166, 167  
 citations of a lost *ars nova* treatise, 25–6, 150, 238  
 possibly authored by Philippe de Vitry, 26  
 similarities to *CS3anon 4*, 133  
 citations of Boethius's *Isagoge*, 166  
 criticisms of the *moderni*, 5, 7, 19, 119–20, 238  
 arguments about stems on semibreves, 140  
 descriptions of practice, 33  
 irregular songs, 212–13  
 lack of deference to *antiqui*, 119  
 minims, 140–1  
 on *ars nova* as unnecessary, 19  
 on imperfecting breves, 144  
 on novelties, 115, 122  
 references to their treatises, 121  
 semibreves  
 figuration of, 122–5  
 solitary (freestanding), 144  
*subtilitas*, 36–7, 68  
 opposed to *utilitas*, 39  
 theories of perfection and imperfection, 178  
 date of *Speculum musicae*, 7, 10, 157  
 defence of the *ars antiqua*, 7, 37  
 hypotheses on identity, 10–11  
 Jean des Murs, personal acquaintance with, 178  
 knowledge of English theory, 141 n. 73  
 mensural theory  
 form and matter, 160–1



- Jacobus, author of *Speculum musicae* (cont.)  
 musical notes, individuated by form, 182  
 related to succession of forms theory,  
 179–81  
 minims, ubiquity of, 140–1  
 on the Athenians, 121  
 on *Aucun ont trouvé*, 127  
 on perfection and imperfection, 151  
 on Petrus de Cruce, 208  
 personal acquaintance with the *moderni*,  
 119–20  
 philosophy  
 knowledge of writings of Godfrey of  
 Fontaines, 169  
 knowledge of writings of Thomas  
 Aquinas, 168  
 knowledge of writings of Walter Burley,  
 175  
 latitude of form  
 succession of forms theory, 173–5  
 on accidental unity, 167, 168  
 on the distinction between accidental and  
 substantial form (*SM* 4), 169–72  
 on essential unity, 167  
 on individuation in substance, 168–9  
 on natural unity, 167  
 on rational unity, 167  
 on unity of being, 166–9  
 on the unity of form, 166  
 plainchant tonary, 11 n. 30  
 semibreves, 121  
 modern varieties of, 115, 121–30  
 preference for descending stems, 140  
 undifferentiated, more than three, 128  
 Jacques de Liège. *See* Jacobus, author of  
*Speculum musicae*  
 James of Spain  
 possible author of *Speculum musicae*, 11  
 study at the University of Oxford, 11  
 Jean Buridan, 7  
 Jean de Ripa  
*latitudo entium*, 193  
 Jean de Savoie  
*Partitura amorosa*, 227 n. 54  
 Jean de Venette, 75  
 Jean des Murs  
 Alfonsine astronomy, 75  
*Alfonsine Canons of 1339*, 80, 96  
 and Alienor de Bretagne, 73  
 and Bec Abbey, 32, 80  
 and Guillaume de St. Cloud, 83  
 and Jeanne de France, queen of Navarre,  
 50 n. 51, 70–1  
 and the Oxford Calculators, 107–9, 172 n. 35  
 annotations to Sorbonne manuscripts, 80–2  
*Arbor Boetii*, 80, 82  
*Ars contrapuncti*  
 authorship of, 90 n. 66  
 as astronomer, 12, 97  
 access to Castilian canons, 89  
 output, 18  
 patrons, 73  
 as master of arts, 12  
 at Avignon, 18, 77, 78–9  
 at Évreux court, 73, 77, 96  
 clerk, 79  
 at Fontevraud, 73, 80, 98  
 at the Sorbonne, 12, 79–83  
 at the University of Paris, 9, 11, 77,  
 102  
*auctoritas*, 77, 111, 158  
 book loans, 4, 13 n. 34  
 to Denis le Grant, 13 n. 34, 198–9  
 to J. de Rothomago, 13, 101 n. 98  
 to Philippe de Vitry, 4, 13, 198–9  
 to Robertus Douchet, 82  
 calendar for Bec Abbey, 73  
 calendar reform, 73  
*Canones tabule tabularum*, 28, 79 n. 27, 85,  
 87–8, 89, 90 n. 68  
 collaborations, 77  
*Compendium*, 22, 100. *See also* Jean des  
 Murs, notational theory  
 dating of, 27, 31  
 practical focus, 102  
 textual relationship to *Omnes homines*  
*libellus* ‘Partes prolationis’, 101  
 user-friendly format, 101  
*Conclusiones*, 22, 95, 238. *See also* Jean des  
 Murs, notational theory  
 as an independent work, 31  
 as response to critics, 30  
 focus on details of notation, 101, 113  
 independent transmissions of, 31  
 relationship to Vitriacan *Ars nova*  
 treatise(s), 143  
 correct determination of the solar year, 91–2  
 death date, 12  
 deattributions, 90 n. 66, 96 n. 81  
 emphasis on practice, 97–9, 111  
*Epistola magistri Johannis de Muris ad*  
*Clementem sextum*, 79  
*Epistola super reformatione antiqui*  
*calendarii*, 78  
**Escorial** annotations, 13 n. 34, 32, 71, 78–83,  
 94, 111–12, 114 n. 28, 198–9

- explicit  
   puzzle-like, 32  
*Expositio*, 79, 87, 88, 89, 91, 92–5  
   discussion of observations, 94  
*Figura inveniendi sinus kardagarum*, 91 n. 68  
 handwriting, 83 n. 38  
 innovations, 69, 76  
   notation, 68, 102–13, 158, 162  
   table design, 77, 101, 102, 111  
 intellectual allegiances, 240  
 judicial astrology, interests in, 81  
*Kalendarium et patefit*, 81, 89, 96, 102  
*Kalendarium solis et lune*, 79, 86, 96, 101, 102  
 knowledge of musical practice, 155  
*Libellus cantus mensurabilis*, 22, 27, 100  
   authorship of, 90 n. 66  
 mathematical works, 90 n. 68  
 mentioned in *Apollinis/Zodiacum*, 1, 2, 3, 7  
 music treatises  
   and the work concept, 101  
   dating of, 33, 76, 90, 101  
*Musica speculativa*, 80, 84  
   dating of, 27, 100  
 notational theory  
   form and matter, 175–83  
   *gradus* system, 103–4, 111, 143–4  
   visualisation, 184–5  
   irregular songs, 212–13  
   the *minim*, 51  
   musical notes individuated by matter, 183  
   on the dot, 208  
   on imperfection  
     as a change in matter, 179  
   on the *maxima* and *minima*, 184  
   on the nature of musical time, 104, 152,  
     183, 197, 235  
   on *notulae*, 176–8  
   on perfection and imperfection, 177–8  
   partial and remote imperfection, 113,  
     147–55, 185  
   precise measurement of duration, 152  
   prolation, parts of, 33  
   *sicut se habet maxim*, 142, 143  
*Notitia artis musicae*, 7 n. 16, 12, 22, 23, 100,  
   102–13. *See also* Jean des Murs,  
   notational theory  
   *auctoritas*, 106, 142  
   cited by Jacobus, 12  
   compendia of, 23  
   dating of, 27, 31, 87  
     1319 date, 31  
     1321 date, 28  
   disputes between *moderni*, 30, 125  
   earliest manuscript copy, 28  
   explicit in BnF lat. 7378A, 28–9  
   on *vox* and form, 175–6  
   ordering of book 2, 103  
   theoretical focus, 102  
   vocabulary from mathematics, physics,  
     106  
   observational data, 76, 94  
   on novelty, 240  
   personal acquaintance with Jacobus, 119,  
     178  
   practice versus theory, 76  
   productivity, 73–5  
*Prognosticatio super coniunctione Saturni*, 78  
*Quadrupartitum numerorum*, 108  
   dedication to Vitry, 13  
   relationship to Philippe de Vitry, 13, 198–9  
   revisions and reworkings, 76, 99–102  
   rhetoric and writing style, 76, 95, 97, 109,  
     111  
   sensible experience (*experientia*), 76, 94, 97,  
     114  
*Sermo de regulis computistarum*, 96  
   student in the faculty of arts, 79  
*Tabule permanentes*, 33, 87 n. 50, 97–9  
*Tabule principales* (aka *Tables of 1321*), 89,  
   96  
   target of Jacobus's *Speculum musicae*, 7  
*Tractatus de reformatione kalendarii* (co-  
   written with Firmin de Beauval), 78  
   the year 1321, 28, 85–90  
 Jean Froissart, 68  
 Jean Pitart, 84  
 Jeanne de France, queen of Navarre, 79, 96, 98,  
   114. *See also* Évreux, court of  
   and Jean des Murs, 71  
   burial at Saint-Denis, 72 n. 8  
   castle in Évreux ('Navarre'), 70–1, 84  
   claim to the French Crown, 72  
   coronation in Pamplona, 70  
   daughter of Louis X, king of France, 71  
   daughter of Marguerite of Burgundy, 72 n. 9  
   Évreux court, 18  
*The Hours of Jeanne de Navarre*, 73  
   interests in astronomy, 73 n. 13  
   marriage to Philippe, count of Évreux, 72  
   mother of Agnès of Navarre, 50 n. 51  
   solar eclipse of 1333, 71  
 Jeffery, Peter, 123  
 Johannes Boen, 22, 51, 68  
   citation of *O canenda/Rex*, 229, 230  
   citation of *Tuba/In arboris* (attrib. Vitry),  
     219 n. 44

- Johannes Boen (cont.)  
 on *modus* changes, 219 n. 44  
 on *subtilitas*  
   fracturing of notes, 43  
 on syncopation, 61  
   example of *Apta/Flos*, 48 n. 45, 61  
 young singers, 43
- Johannes de Burgundia. *See also under*  
 Petrus de Picardia  
*arbor*, 193
- Johannes de Garlandia, 203, 205, 207  
*divisio modorum*, 207  
*divisio sillabarum*, 207  
 of Robertus de Handlo, 128  
 on *species*, 185 n. 78  
 on the modes, 202  
 rhythmic modes and placement of perfect  
   consonances, 204  
*tractuli*, 207
- Johannes de Grocheio, 41, 109 n. 119
- Johannes de Vetulus Anagnia, 22, 26, 196  
 tree diagrams, 195
- John XXII, 32 n. 88  
 papal bull of 1324/5, 27, 31  
 and *Speculum musicae*, 28
- John Dumbleton, 193  
 latitude of form, 107–8  
   addition theory, 172
- John Duns Scotus, 180, 193  
 latitude of form  
   addition theory, 172, 173, 180  
 on the intension of grace, 180  
 quantitative measurement of quality, 108
- John of Berry, 40
- John of Lignères, 83, 88, 89, 96
- John of Salisbury, 17  
*Metalogicon*  
   criticisms of the *moderni*, 37–9  
   on the *antiqui*  
   on *subtilitas*, 37–9  
   crude, unrefined, 38  
*Policraticus*  
   French translation by Denis Foulechat, 38  
   n. 9  
   revival in fourteenth-century France, 38 n. 9
- John of Saxony, 88, 96
- John of Tewkesbury, 13, 22, 23, 26  
*Quatuor principalia*, 23  
 invention of the *minim*, 71 n. 6, 140 n. 70  
 tree diagrams, 195
- John Peckham  
 on the heresy of the unity of form, 164
- John Vimond, 89
- Judah ben Moses ha-Cohen, 88
- Julian des Murs, 81
- Kaye, Joel, 109
- Khwarizmi  
*Arithmetic*, 81
- Kirnberger, Johann Philipp, 236
- Koblenz**, 146
- Kremer, Richard, 75, 97
- Kuhn, Thomas, 158  
 incommensurability of scientific  
   worldviews, 118  
*The Structure of Scientific Revolutions*, 118  
 theories of scientific change, 118
- L'Huillier, Ghislaine, 108
- Lambertus, 22, 41, 105, 119 n. 11, 185  
 on the perfect long, 208  
 on the ternary perfection (*perfectio*), 203–4
- Le Bec-Hellouin. *See* Bec Abbey
- Leach, Elizabeth Eva, 237
- Leech-Wilkinson, Daniel, 15, 16
- Levi Ben Gerson, 13, 83, 119  
 and Avignon, 18
- Liège, 10, 11, 173  
 collegiate church of St.-Paul, 10  
 mentioned by Jacobus in *Speculum musicae*,  
   10
- Linus, 50
- Lochrie, Karma, 228
- logic, medieval  
   *via antiqua*, 7  
   *via moderna*, 7
- Longueville, 72
- Louis de Bourbon, count of Clermont, 12
- Louis X, king of France, 72 n. 9
- Mahaut, Countess of Artois  
 patron of astronomy, 73  
*maneries*. *See under* notation, rhythmic modes
- Marchetto da Padova, 8, 193, 196  
 Franconian inheritance, 194  
*Pomerium*  
   *divisiones*, 194  
   Tree of Porphyry, 194
- Marguerite of Burgundy, mother of Jeanne de  
 France, queen of Navarre, 72 n. 9
- Marie de Brabant, wife of Philippe III, king of  
 France  
 patron of astronomy, 72
- Marigny  
 Enguerrand de. *See* Enguerrand de Marigny
- Matteo da Brescia, 11

- Maw, David, 238  
 measurement. *See also* innovations, technology  
   fourteenth-century obsession with, 18, 110  
   mechanical clock, 17  
   precision, 17, 110, 240  
   quantitative measurement of qualities  
     John Duns Scotus, 107–9  
     Walter Odington, 107–9  
 medicine, 18, 82  
 memory  
   and oral transmission of music repertoires,  
     239  
 Mertonian Calculators. *See* University of  
   Oxford, Oxford Calculators  
 metalwork, 17  
 Michels, Ulrich, 27, 28, 33, 86, 87, 100, 120  
 Minos, 50  
 Miolo, Laure, 80  
**Mo**, 53  
   distribution of sonorities, 205  
   fascicles 7 and 8  
     motets, 15, 208  
     upper-voice organisation, 15 n. 45  
   fascicle 8, 16 n. 46  
     date of copying, 16  
     motets, 205  
   notation, 156  
   undifferentiated semibreves, more than  
     three, 128  
*moderni*  
   *antiqui v. moderni*, 7 n. 15  
   as youths, 10, 38  
   criticisms of, 7 n. 15. *See also* under Jacobus,  
     author of *Speculum musicae* and  
     under John of Salisbury  
   delight in superficialities, 17  
   perceptions of, 7 n. 15  
   subtlety of, 17  
   University of Paris  
     masters in logic and philosophy, 7  
*modus*. *See* under notation, *modus* and  
   rhythmic modes  
 Mons, 10  
 Montpellier Codex. *See* **Mo**  
 Mortain, 72  
 motets  
   compositional design, 20  
   form  
     as manifestation of main idea of the text,  
       239  
     patterned tenors, 15  
     schematisation, 15  
     upper-voice organisation, 15  
   Petronian, 127 n. 33  
   texts  
     Greek mythology, 50  
     imagery  
       dragon, 219  
       flower, 50  
       gemstones, 50  
       gold, 50  
       silk, 50  
       wound of Christ, 228  
     Virgin Mary, 50  
 Murdoch, John, 184  
 music theory. *See also* notation and under  
   *individual theorists*  
   *musica mensurabilis*, 8  
   prescriptive v. descriptive, 23  
   treatises  
     ordering of topics, 106  
     typology, 23–4  
 Navarre  
   invention of minim, 71 n. 6, 140 n. 70  
 Nicole Oresme, 19 n. 52  
 Normandy, 12  
   astronomers, 89  
   specialists in astronomy, astrology and  
     medicine, 82–4  
 North, J. D., 77  
 notation  
   ambiguity, 129  
   anomalies, 8, 113, 118, 156, 240  
   as compositional constraint, 239  
   *brevissima*, 104  
   *currentes*, 125  
   divergences between English, French, and  
     Italian notations, 8  
   *divisio modi*, 207, 208  
   *divisio modorum*, 207  
   dot, 20, 21, 197, 201  
   of division, 126–9, 144, 208, 230  
   of perfection, 61, 201, 209, 210, 211, 216,  
     219, 220, 228, 229, 232, 235, 240  
   *punctus additionis*, 207 n. 22, 209  
   *punctus augmentationis*, 207 n. 22  
   *signum perfectionis*, 207–8  
   theory of, 205–9  
   drama, 123  
   duple long, 53  
   imperfection by a semibreve, 150  
   England, 8  
   post-Franconian, 141  
   *fractio*, 42  
   Franconian, 53, 197

- notation (cont.)  
*gradus* system. *See under* Jean des Murs  
 impact on stylistic development, 239  
 innovations, 68, 102–13  
 Italy, 8  
   post-Franconian, 141  
 ligatures, 105  
 long  
   binary, 51 n. 55, 156 n. 111  
   perfect, 203–4  
*longa ultra mensuram*, 203  
*longissima*, 104, 185  
 mensuration, 51 n. 55  
   misalignment between voices, 202  
 minim, 19, 51, 104, 117, 134, 135, 140–1, 185  
   invented in Navarre, 71 n. 6  
   invention by Vitry, 140 n. 70  
   *minima altera*, 133  
   *minima alterata*, 135  
   ubiquity of, 145  
   with ascending stem  
     standard by c. 1350, 136  
 minor (of Des Murs), 115, 117, 134, 135  
*modus*  
   change indicated with red ink, 216  
   imperfect, 51 n. 55, 51, 210  
   perfect, 51 n. 55  
   transgression of, 201  
 musical time  
   cumulative nature of, 197  
 names for notes shorter than the breve, 134–5  
 novelties of, 17  
 partial and remote imperfection, 147–55  
*parva*, 115, 117, 134  
 perfection and imperfection of breve, and  
   semibreve, 141–5  
 Petronian. *See* notation, semibreves,  
   undifferentiated, more than three  
 post-Franconian, 126–9  
   England, 240  
   Italy, 240  
*punctus*. *See under* notation, dot  
*punctus divisionis*. *See* notation, dot, of  
   division  
*punctus perfectionis*. *See* notation, dot, of  
   perfection  
 red ink, 216, 219 n. 44, 222  
   to indicate imperfect rests, 232 n. 63  
   to indicate syncopation, 60 n. 63  
 rests, 105, 185, 207  
 rhythmic duration  
   exact measurement of, 5, 6, 8,  
     130, 240  
 rhythmic modes, 202–3  
 semibreves, 19  
   decorative, 53, 125  
   descending stems  
     as practice of *antiqui*, 140 n. 70, 140  
   figuration of, 122–5  
   half-full  
     indicating syncopation, 123  
   imperfect, 135  
   imperfecting breves or longs, 144  
   major (Franconian), 125  
   minor (Franconian), 125, 134  
   red  
     indicating syncopation, 123  
   *semibrevis signata*. *See* notation,  
     semibreves, tagged  
   solitary (freestanding), 144  
   tagged, 136–41  
   undifferentiated  
     in music manuscripts, 128  
     more than three, 126–9  
   with stems. *See* notation, semibreves,  
     tagged  
*semibrevis minima*, 115, 117, 145, 147  
 semiminim, 115 n. 3, 115, 117  
*semiminor*, 134 n. 54  
 syncopation, 43  
*trictae*, 207 n. 21  
 updating motets from *ars antiqua* to *ars  
 nova* notation, 146  
 void notes  
   to indicate syncopation, 60 n. 64  
 Nothaft, Philipp, 75, 78  
 Notre-Dame polyphony, 42, 125  
 Ob Digby 190, 79 n. 27, 85 n. 48  
*Omnes homines libelli*, 22, 33  
   borrowed by J. de Rothomago, 32  
   dating of, 33  
   ‘Partes prolationis’  
     textual relationship to *Compendium*, 101  
     possibly by Jean des Murs, 33  
*Omni desideranti*, 22, 24, 26, 27, 60, 61 n. 65,  
   145, 209  
 explicits  
   attribution to Vitry, 24  
   manuscript witnesses, 24  
**Onc**  
   undifferentiated semibreves, more than  
     three, 128  
 Oresme, Nicole. *See* Nicole Oresme  
 Ovid, 49  
*Metamorphoses*, 216

- Ovide moralisée*, 66  
 Oxford Calculators. *See under* University of Oxford
- Palmer, R. Barton, 45  
 papal bull of 1324/5. *See under* John XXII  
 Paris, 5, 6, 72  
   Alfonsine astronomy, 75, 88, 89  
   around the year 1330, 6  
   mentioned by Jacobus, author of *Speculum musicae*, 10  
   musical activity, 7  
   Parlement, 6  
   royal administration, 13  
   royal chancery, 12  
   royal court, 6
- Pasnau, Robert, 162  
 Pau, Béarn, 50 n. 51  
 perfection  
   motion to, from a state of imperfection, 204  
   of the circle, 204  
   of the soul, 204  
   of the ternary number, 204
- Peter Abelard, 40  
 Peter d'Abano, 84 n. 45  
 Peter of Dacia, 4 n. 6, 4. *See also* Pierre de Bruges  
 Peter of Limoges, 81, 82 n. 33, 82, 83  
   copier and annotator of BnF lat. 16663 (Hieronymus of Moravia), 82  
   measurements of comets, 83
- Peter of Spain  
   *Tractatus*, 192
- Peter of St Omer, 4 n. 6  
 Peter the Nightingale. *See* Peter of Dacia  
 Petrarch, Francesco. *See* Francesco Petrarch  
 Petrus de Cruce, 126–8, 127 n. 33, 130  
   attribution of *Ps.-Petr. Cruc.* treatise, 128 n. 38
- Petrus de Picardia  
   and *arbor* of Johannes de Burgundia, 187–8, 192–3  
   on the five *species* of ligature, 188  
   on the six *species* of rest, 188  
   on the three *species* of simple figures, 187
- Petrus de Sancto Dionysio, 22, 24  
   at the University of Paris, 9  
   regent in the faculty of theology, 85 n. 47
- Petrus dictus Palma ociosa, 46, 130  
   *Compendium de discantu mensurabili*, 46
- Philippe de Dunois, 81
- Philippe de Valois. *See* Philippe VI, king of France
- Philippe de Vitry, 199, 226  
   acquaintance of Denis le Grant, 4, 198–9  
   *Ars nova* treatise, 14. *See also* Vitriacan *Ars nova* treatise(s)  
   as formulation of oral teachings, 25  
   attributions to, 24  
   dating of, 27  
   questions regarding authorship, 24  
   as author of the *Omni desideranti* treatise, 26  
   as Bishop of Meaux, 13  
   as bureaucrat, 12  
   as Jacobus's *doctor modernus*, 26  
   as music theorist, 14  
   book loans from Jean des Murs, 198  
   career, 12–13  
   disciples of, 25  
   employment in the Paris Parlement, 6  
   in Avignon, 18  
     calendar reform conference, 13 n. 34  
   interest in myth, 50 n. 51  
   invention of *minim*, 140 n. 70  
   inventor of a 'new manner' of motets, 14  
   mentioned in *Apollinis/Zodiacum*, 1, 2, 3, 5, 7  
   motets  
     attribution, 13, 15 n. 40  
     influence on Guillaume de Machaut, 4  
     innovative treatment of mensuration, 236  
   *Omni desideranti*. *See under* *Omni desideranti*, explicits, attribution to Vitry  
   personal acquaintance with Jacobus, 119  
   relationship to Jean des Murs, 13, 198–9  
   reputation as *musicus*, 13  
   target of Jacobus's *Speculum musicae*, 7
- Philippe III, king of France, 72  
 Philippe IV, king of France ('le bel'), 49, 71 n. 8, 72  
   Norman physicians at court of, 84
- Philippe V, king of France, 72 n. 9  
 Philippe VI, king of France, 12, 72  
 Philippe, count of Évreux, 72, 96  
   marriage to Jeanne de France, queen of Navarre, 72
- philosophy, medieval  
   being, unity of, 167  
   form  
     accidental, 169–72  
     bodily, 164. *See also* theology, on Christ's corpse  
     substantial, 169–72

- philosophy, medieval (cont.)  
 unity of, 162–6  
 and theories of mensural notation, 165  
 forms  
 plurality of, 163, 167  
 latitude of form, 172–5  
 addition theory, 172–3  
 on individuation in substance, 168–9  
 scale of perfection  
 degrees (*latitudo entium*), 193  
 measured by degrees (*latitudo entium*), 193  
 Phoebus. *See* Apollo  
**Pic**, 238  
 Pierre de Bruges, 2, 3, 4  
 Pierre Roger. *See also* Clement VI  
 abbot at Fécamp, 82  
 master of theology and provisor of the Sorbonne, 82  
 Plato, 204  
 Pliny  
*Natural History*, 40  
**Pn** 571, 147  
 semibreves  
 stems, 124, 138  
 polyphony  
 compared to the weaving of threads in a textile, 67  
 manuscript sources  
 fragmentary, 16 n. 46  
 Porphyry  
*Isagoge*, 192. *See also* diagrams, tree, Tree of Porphyry  
 Poulle, Emmanuel, 75, 86, 89, 95, 99  
 prolation, parts of. *See under* Jean des Murs, notational theory  
 Propocius, 43  
*Ps.-Murs. arg.* 22, 26, 123 n. 24  
 on syncopations with void notes, 60 n. 64, 123  
*Ps.-Petr. Cruc.*, 22  
 attribution to Petrus de Cruce, 128 n. 38  
 on undifferentiated semibreves, more than three, 128 n. 38  
*Ps.-Theodonus*, 22, 26, 123  
 copying date, 133  
 descending stems as practice of the *antiqui*, 140 n. 70  
 semibreve patterns, 133, 145  
 attribution to *antiqui*, 133  
 Ptolemy, 91, 93, 111  
*Almagest*, 198 n. 3  
 punctuation, medieval, 205, 228 n. 57  
*punctus*. *See under* notation, dot  
*punctus divisionis*. *See* notation, dot, of division  
*punctus perfectionis*. *See* notation, dot, of perfection  
 Pythagoras, 3  
  
*Quatuor principalia*. *See under* John of Tewkesbury  
 Quintilian, 38  
  
 Ramon Llull  
*Arbor scientiae*, 189  
*Tractatus novus de astronomia*, 81  
 Reg. Lat. 1191, 83  
 Reginaldus de Cornemare, 84  
 Reginaud Daugnon, 81  
*Règles de la seconde rhétorique*  
 reference to Vitry, 13  
 Regnaud de Tirllemont, 2, 3, 4  
 revolution. *See ars nova*, as revolution  
 Richard of Bury  
 intellectual salons at Merton College, 77 n. 20  
 Richard of Wallingford, 17  
 Rico, Gilles, 9  
 Robertus de Handlo, 8, 22, 26  
 on *Aucun ont trouvé*, 127  
 on Johannes de Garlandia, 128  
 on Petrus de Cruce, 208  
*punctus divisionis*, 208  
 undifferentiated semibreves, more than three, 128  
 Robert du Palais, 2, 3, 4  
 Robert Kilwardby  
 on the teachings of Aquinas on the unity of form, 164  
 Robertus Douchet, 82  
 Roger Bacon, 109 n. 115  
*Perspectiva*, 81  
*Roman de Fauvel*, 48. *See also* **Fauv**  
*rotuli*, 16 n. 46, 238  
  
**Sa**, 147  
 stems, 123  
 Sachs, Curt, 197  
 Saint-Denis, 72 n. 8  
 Saint-Germain, Évreux, 70–1, 84  
 Sanders, Ernest, 15, 16  
 schematisation. *See* motets, form  
 Schrade, Leo, 15  
 science, medieval  
 alchemy, 108  
 changes in accidental form

- maximum of four degrees, 184  
 measured by degrees, 184  
 latitude of form, 110. *See also under*  
     philosophy, medieval  
     along one dimension, 184  
     succession-of-forms theory,  
         173–5  
 measure mania, 110  
 physics  
     *maxima*, 108  
     *minima*, 108  
 theories of motion, acceleration, and  
     resistance, 107  
 theories of qualitative change, 172  
 scribes, 14, 24, 27, 101, 106, 136, 140, 146, 153,  
     205, 213, 238  
 Seneca, 38, 39  
 Sens, 4  
 Shakespeare  
     Sonnet 59, 19  
**Siena**, 24  
 Siger of Brabant, 163  
 Simon de Phares, 75  
 Sorbonne. *See under* University  
     of Paris  
*Speculum theologiae* (Orchard of Consolation),  
     189  
 Spenser, Edmund, 66  
 St Omer, 4 n. 6  
**St Paul 135/1**, 31  
**St Paul 264/4**, 30, 105  
*subtilitas*. *See also under ars nova*, aesthetics  
     and sharp intellect, 40  
     and timbre, 41, 50  
     as central aesthetic of *ars nova*,  
         68, 240  
     as rhythmic division, 43, 125  
     as superfluities, 39  
     aspect of performance, 40–1  
         voices of women and children, 40  
     fine craftsmanship, 43–5  
     negative connotations, 17  
     of textiles, 66–7  
     surface *color*, 43  
 Sylla, Edith D., 109, 175, 184  
  
 Tanay, Dorit, 107, 108, 109, 154  
 technology  
     scientific instruments, 76, 77, 83, 84, 94  
 textiles. *See under subtilitas and under*  
     polyphony  
 Thābit ibn Qurra, 81, 91, 111  
 Thadeus of Parma, 94 n. 74  
  
 theology  
     Christ's corpse, 164  
     hylomorphism (body-soul relationship), 164  
     the incarnation, 164  
     the resurrection, 164  
     transubstantiation, 164  
 Thomas Aquinas, 163, 164, 168, 179  
     *Commentary on Aristotle's Metaphysics*  
         on essential unity as convertible with  
             being, 168  
     on being, 167  
     on Christ's corpse, 164  
     on dimensive quantity, 164 n. 14  
     on quantity as the principle of individuation  
         in substance, 168  
     on the unity of form, 163, 167  
 Thomas Bradwardine, 77 n. 20, 109 n. 115  
 Toledo, 88  
 torquetum, 83, 95  
*Tractatus figurarum*, 51, 68  
     citation of *Apta/Flos* and *Tribum/Quoniam*,  
         48  
     passage on *Tribum/Quoniam* and *Apta/Flos*,  
         35  
**Tu**, 127 n. 33  
     undifferentiated semibreves, more than  
         three, 128  
  
 University of Oxford, 11, 164, 184  
     Merton College, 77 n. 20  
     Oxford Calculators, 107–9, 172 n. 35, 184  
     study of physics, 184  
 University of Paris, 4 n. 6, 5, 6–7, 9, 11, 77, 169,  
     173  
     1316 supplication by the university masters,  
         10  
     Collège de Sorbonne, 5, 10 n. 21, 96  
         Jean des Murs's association with, 12, 19,  
             79–82, 85, 96, 100  
     college foundation, 6  
     copying of music treatises, 9  
     Faculty of Arts  
         listed in *Apollinis/Zodiacum*, 5  
     study of music, 9  
  
 Vale of Tempe, 50  
**Vatican 1146**, 31  
 Vatican *Ars nova*. *See* Vitriacan *Ars nova*  
     treatise(s), *Rvat307*  
 Verboon, Annemieke, 189, 192  
 Vicenza, 11  
 Vitriacan *Ars nova* treatise(s), 106, 196  
     and Jean des Murs's *Conclusiones*, 143



- Vitriacan *Ars nova* treatise(s) (cont.)  
 attributions to Philippe de Vitry, 14  
*Breslau*, 22, 123  
 citations of motets, 14  
*CS3anon3*, 22, 24, 123, 130, 135 n. 58, 157  
   copying date, 136  
   drama, 123–4  
   semibreves, tagged, 136–40  
*CS3anon4*, 22, 24  
   copying date, 133  
   semibreve patterns, 132–40  
   similarities to the treatise by Jacobus's  
     *doctor modernus*, 133  
 dating of, 28, 145  
 dot of perfection, 209  
 drama, 123  
*Lbl21455*, 24  
 manuscripts  
   copied in Paris, 9 n. 21  
 motets cited in, 34  
 on the imperfection of the duple long by  
   a semibreve, 150  
 on the interpretation of semibreve groups,  
   130  
*Pn14741*, 22  
   discussion of prolation, 145 n. 85  
*Pn7378A*, 22, 26, 145  
   explicit, 24  
   on syncopation with red notes, 60 n. 64,  
     123  
   partial and remote imperfection, 155  
   textual concordances  
     *Pn14741*, 24  
     *Rvat307*, 24  
 relationship to theories of Jean des Murs,  
   156  
*Rvat307*, 22, 23  
*Rvat307/Pn14741*, 22, 26  
 semibreve patterns, 132–40  
   documenting an older practice, 144–5,  
     157  
 semibreves, tagged  
   first note of three  
     in *Rvat307*, *CS3anon3* and *CS3anon4*,  
       137–8  
   *sicut se habet* maxim (the similarity  
     principle), 141  
 syncopation, 59  
 witnesses, 14  
   divergences in text, 27  
*Wolfanon3*, 22  
   copying date, 130  
   discussion of fully fledged French *ars nova*  
     notation, 133  
   manuscript source  
     dating of, 60 n. 62  
     on syncopation, 59  
   semibreve patterns, 130–3, 145  
     attributed to the *antiqui*, 130  
   written exemplar, 26, 137  
 Vitry, Philippe de. *See* Philippe de Vitry
- Walter Burley, 109 n. 115  
*De intensione et remissione formarum*  
   dating of, 175  
 latitude of form  
   succession of forms theory, 173,  
     174, 180  
 master of theology, University of Paris, 173  
 on qualitative change, 173  
 Walter Odington, 22, 108, 184, 193  
*gradus* theory, 108  
*Summa de speculatione musicae*, 184  
 theory of intension and remission of form  
   diagram, measured by four degrees, 184  
*Ycocedron*  
   qualitative intensities, 108
- Wathey, Andrew, 124  
 Wegman, Rob, 11, 32  
 William Heytesbury, 109 n. 115  
 William of Ockham, 7, 163  
   reception in Paris, 7 n. 14  
 Wippel, John F., 169  
 Wonck, 10  
 Woodacre, Elena, 72  
**Wrocław**, 146 n. 88, 238
- Zayaruznaya, Anna, 154, 228, 239  
 Zeus, 50  
 zodiac, 2, 3, 91 n. 70