

# Index

(References to illustrations are in **bold**)

- Abrams, M.H. 145  
Adams, Henry  
    “The Dynamo and the Virgin” 10  
    *The Education of Henry Adams* 10  
Adorno, Theodor 185, 191  
advertising  
    Balzac on 302  
    commercial, beginnings 302  
    criticism of 306  
    in *The Strand Magazine* 241–4  
    in *Un Autre Monde* (Grandville)  
        311–13  
Allen, Grant, on aphids 230–1  
Alma-Tadema, Lawrence 152  
Altick, Richard D., *The Shows of London*  
    252, 263  
Anglicanism 212  
Anthony, A.V.S. 100  
aphids, Allen on 230–1  
*Apollo* 186  
Arnold, Matthew 97  
art  
    English 153  
    as mirror of nature 172  
    Modernism 142  
    Ortega y Gasset on 141  
    Rodin on 124  
    Romantic view 145  
    and social improvement xxi, 142, 143,  
        147  
    Whistler on 139–41  
*The Art Journal* 104  
art market, 19c Britain 148  
art museums 143  
    municipal 153  
    value of, Kingsley on 151  
artists  
    chronophotography, challenge of  
        112–13, 120  
    as nature copyists 114–15  
Babbage, Charles 206, 254  
    difference engine 263  
    *On the Economy of Machinery and  
        Manufactures* 12  
Bacon, Francis, *Novum Organon* 257  
Bacon, John Mackenzie 242  
    on progress 232  
    on sound 233–4  
Baldus, Edouard, *Landscape near the  
    Chantilly Viaduct* 49  
Bale, Edwin 102  
Balla, Giacomo 10  
ballet, suspension bridges, link 34  
Balzac, Honoré de  
    on advertising 302  
    *Wild Ass’s Skin* 280, 307  
Barringer, Tim 146  
Barron, Louis, description of Ivry  
    45–6  
Barrows, Susanna 186  
Basse-Chaine Bridge, collapse 34–5

- Baudelaire, Charles  
 on Grandville's *Un Autre Monde* 296,  
 310–11  
 on photography 109–10  
 works  
*Les Fleurs du mal* 116  
 "The Painter of Modern Life" 91–2
- beauty  
 18c notion 144–5  
 Ruskin on 149–50  
 Shaftesbury on 144
- Beaver, Harold 290
- Benjamin, Walter 194, 196, 304, 311  
*Paris Capital of the Nineteenth Century*  
 184  
 wish image concept 184–5, 191
- Bergson, Henri 74  
*Creative Evolution* 123  
 duration theory 123  
 on the Parthenon frieze 123
- Berman, Marshall, *All That is Solid Melts  
 into Air* 11
- Bhabha, Homi 317, 318  
*The Location of Culture* 84
- Bible, rationalist critiques of 218
- Black and White* 102
- Blackburn, Charles 93
- Blackburn, William 67
- Blake, William, *Milton* 8
- Blanc, Charles 296
- blasphemy 212–13
- Boccioni, Umberto 10
- Bodmer, Charles, *Dans la mer*,  
 photograph 116–17
- body, as machine 15
- Boehm, Edgar, Ruskin portrait,  
 engraving 99
- Boole, Alicia 206, 207
- Boole, George  
 memorial windows xxii, 205, 208  
 Cork University 210, 211, 212–16, 222  
 Lincoln Cathedral 216, 217, 218, 223  
 religious beliefs 206–8, 213, 218, 222,  
 223  
 on scientific inquiry 221–2  
 works  
*The Claims of Science* 220, 221  
*Laws of Thought* 207, 208, 209, 218  
 —existence of God 213  
*Mathematical Analysis of Logic* 218
- Boole, Mary Everest 206, 207, 208, 209,  
 213, 218, 222–3  
 "Home-side of a Scientific Mind" 210
- Bordet, L. 28  
 on perspective 29–30
- Bosch, Hieronymous, *Garden of Earthly  
 Delights* 290
- botanical garden, plant organization  
 167–8
- Braun, Marta 122–3
- Brewster, David, *Natural Magic* 263
- bridges *see* suspension bridges
- Bridgewater Treatises 212, 249, 254
- Britain  
 1890s, periodical publishing 85  
 Industrial Revolution 8
- British Association ... Advancement of  
 Science 58, 59, 71, 73
- British School of Art 151
- Bromhead, H.W. 104
- Buguet, Edouard Isidore 55
- Burke, Edmund 144
- Butler, Samuel  
 on tyranny of machines 9–10  
 works  
 "Darwin among the Machines" 9  
*Erewhon* 9  
 "The Mechanical Creation" 9
- Cabanel, Alexandre 112
- Caillebotte, Gustave  
*Calf's head and Ox Tongue* 287, 288  
*Man at his Bath* 289  
*Veal on Display* xxii–xxiii, 271, 272, 274,  
 278, 288–9  
 Druick on 271, 273  
 as "nude" 287  
 rose, significance of 290–1
- Caldecott, Randolph 152
- camera  
 and the natural world 235  
 Wyles on 234–5  
*see also* photographs; photography
- Cannon, Susan 212

- La Caricature* 280, 282  
 “La grande epidémie  
 pornographique” 281
- Carlyle, Thomas, “Signs of the Times” 8
- carnival  
 confetti, introduction of 194–6  
 Pissarro’s depiction of 186–96
- Carpenter, W.B. 65, 66, 70
- Cézanne, Paul 43  
*Jussieu Wine Market* 46
- Chamber’s Encyclopaedia* 252
- Chambers, Robert, *Vestiges of the Natural  
 History of Creation* 249, 259  
 Secord on 260, 262–3  
 as verbal orrery 262–3
- Champfleury (pseud Jules Fleury),  
*Histoire de la caricature moderne* 296
- Charcot, Jean-Martin 114
- Le Charivari* 296, 300, 301
- Chaumont Viaduct 24, 26–7, 27  
 image manipulation 30–1  
 as landscape image 28  
 reception 27
- Chicago, Columbian Exposition 93
- chronophotography  
 artists, challenge to 112–13, 120  
 de la Sizeranne on 123  
 effect on Rodin’s *Walking Man* 126  
 origins 111
- clairvoyance, in *The Moonstone* (Collins)  
 323
- Claretie, Jules 112
- Clark, John, “Eureka” Machine 261
- Clark, T.J. 188, 189, 192, 196
- Claude-glass mirror 165
- Clausius, Rudolf 15
- Cole, Timothy 100, 102  
*Delphian Sibyl, by Michelangelo* 101  
*Old Italian Masters* 101  
 criticism of 102
- Collignon, Edouard, *Les travaux publics  
 de la France* 21, 28–9
- Collins, Wilkie  
 interest in clairvoyance 323  
*The Moonstone* xxiii, 317, 319  
 blindness, references 321–2  
 clairvoyance 323  
 opium, role 318, 321, 322, 326, 327,  
 328  
 otherness symbols 324–5  
 psychoanalysis 328–9  
 self, disruption/integration of 319,  
 325–6, 327–9  
 social disruption 321–2, 329–30  
 surveillance control 320, 322–4  
*The Woman in White* 326
- Colonial and Indian Exhibition (1886)  
 318
- colonial Other  
 and the self 320  
 in Victorian novels 318–20
- colonizing gaze 317–18
- Commune *see* Paris Commune
- Conan Doyle, Sir Arthur 57, 238, 239, 241
- Constantine Bridge, collapse 35, 36
- consumerism, and the female body 278
- Cook, E.T., *A Popular Handbook to the  
 National Gallery* 152
- Cook, Florence 58, 59, 60, 73  
 mediumship, Crookes’ investigation  
 67–8, 74
- Cooper, Anthony Ashley *see* Shaftesbury,  
 Lord
- Cork University, Boole memorial  
 window 210, 211, 212–16, 222
- Courbet, Gustave 301
- Cousin, Victor 212  
*Le Moi* 219  
 on the self 219
- Crary, Jonathan 83
- Crookes, Sir William 59, 60  
 career 60–1  
 setbacks 62–3
- Cook, mediumship investigation 67–8,  
 74
- “Crookes Tube” 70–1, 72
- honors received 73
- London Dialectical Society,  
 connections 63, 64
- member, Government Solar Eclipse  
 Expedition 63–4
- on radiant matter 71–2, 73
- radiometer invention 70
- scientific investigations 69–70

- spirit photography  
 about-turn on 60  
 support for 58–60, 66  
 spiritualism, investigations 64–6, 73–4  
 thallium, discovery of 61–2  
 “Crookes Tube” 70–1, 72  
 Cruikshank, George, mechanism,  
 application to periodical journalism  
**262**
- Dagonet, François 115  
 Daguerre, Jacques Louis Mandé 109  
 D’Albe, E.E. Fournier 60, 61, 62, 73  
 D’Alembert, Jean *see* Diderot, Denis  
 “damasking” 164  
 Damisch, Hubert 196  
 Darius, Sara 126  
 Darwin, Charles 70  
*Origin of Species* 9, 249, 259  
 Daumier, Honoré 301, 306  
 Davanne, Alphonse 30  
 on photography 28  
 de Fourcroy, Antoine François, *Poppies  
 and Birds* 168, **171**  
 de la Sizeranne, Robert, on  
 chronophotography 123  
 de Maupassant, Guy 24  
 De Morgan, Augustus 57, 207, 208  
 de Musset, Alfred 34  
 De Vericour, Raymond 220  
*Historical Analysis of Christian  
 Civilization* 219, 221  
 Degas, Edgar 112  
*Miss La La au Cirque Fernando* 271  
 DeKosky, Robert K. 72  
 Deloncle, François 244  
 Delord, Taxile 300, 306  
 Des Esseintes, Jean (fictional character)  
 4, 273–4  
 deviancy, physical signs of 285  
 Dick, Thomas, *The Christian Philosopher*  
 254, 256  
 illustration **255**  
 Dickens, Charles 97  
*Edwin Drood* xxiii, 318–19  
 opium in 318  
*Hard Times* 8  
*The Uncommercial Traveller* 252  
 Diderot, Denis, and Jean D’Alembert,  
*Encyclopédie* 12  
 Dissenters 212  
 Druet, Eugène, Rodin photographs  
*The Clenched Hand* 117, 118  
*Despair* 117  
*The Helmet-Maker’s Wife* 117  
*The Monument to Balzac* **110**  
 Druick, Douglas, on Caillebotte’s *Veal on  
 Display* 271  
 Dujardin-Beaumetz, H.C.E. 111, 116  
 Dumas, Alexandre 34, 35, 37  
 on viaducts 23  
 duration theory, Bergson 123
- Eakins, Thomas, *A May Morning in the  
 Park (The Fairman Rogers’ Four-in-  
 Hand)* 111  
 Eiffel, Gustave 31  
 Eisen, Charles, “Le Villageois qui  
 cherche son veau” **283**  
 Eliot, George 218  
 Emerson, Ralph Waldo, *Nature* 258, 260  
 empathy theory 174  
*Encyclopedia Britannica* 244  
 Engel, Ernst 3–4, 8, 12, 17  
 Engrand, Georges, running man  
 sculpture **122**  
 Ephrussi, Charles 194  
 Esquiro, Alphonse 279  
 “Eureka” Machine, Clark’s **261**  
*L’événement parisien* 280  
 Exposition Colonial Internationale (1931)  
 318  
 eye  
 metaphor 258  
 Whewell on 257–8
- Falguière, Alexandre 115  
 Falk, H.J. 206–7  
 Faraday, Michael 71  
 Ferguson, Adam 145  
 Figuiet, Louis, *Les Merveilles de la science* 49  
 Fillonneau, Ernest 188  
 Fitzgerald, William G., on the  
 microscope 236–8

- Flammarion, Camille 57
- Flaubert, Gustave 192
- Flore et Zéphire* 34
- flowers, as sexual metaphor 290, 291
- Forster, E.M., *A Passage to India* 320
- Foucault, Michel, on Linnean taxonomy  
168
- Fox sisters 56
- Fox Talbot, William Henry 95–6, 109
- Fragonard, Jean-Honoré 282  
*The Swing* 284
- France  
publishing developments 297  
railway development 22  
School of Bridges and Roads 28  
Society of Photography 30
- Franco-Prussian War xx, 13, 44, 45
- Franklin, Benjamin 250
- Freud, Sigmund 15, 245  
*The Interpretation of Dreams* 326,  
328
- Fribourg Bridge, Switzerland 34
- Fried, Michael 287
- Frith, William 152
- Futurism 10  
program 14
- Futurists 11–12
- gallery system, and Pissarro 193, 194
- Gallimard, Paul 116
- Galton, Francis 70
- Gamble, William 96
- Gandhi, Mohandas 149
- Gantz, Katherine 289
- Gauguin, Paul 43
- Gautier, Théophile  
on Grandville's *Un Autre Monde* 296  
on photosculpture 121  
*Gazette grivoise* 280
- Géricault, Théodore, *Le Derby d'Epsom*  
114
- Germany, industrialization 8
- Gérôme, Jean-Léon 112
- Gilpin, William 165
- Goebbels, Joseph 7
- Goldstein, Jan 219
- gothic revival, Pugin 213
- Government Solar Eclipse Expedition  
Crookes' membership 63–4  
failure 63–4
- Grandville, Jean-Jacques  
self-portrait 298  
works  
*Les Fleurs Animées* 296  
*Les Métamorphoses du Jour* 296  
*Scènes de la vie privée et publique des animaux* 296  
*Un Autre Monde* xxiii, 295, 313  
—advertising in 311–13  
—Baudelaire on 296, 310–11  
—Gautier on 296  
—genre ambiguity 295–6  
—illustrations 298–9, 305, 308–9  
—narratives 300–9  
—serialisation 296  
—structure 297–300, 309–10  
—themes 296–7
- The Graphic* 103
- Great Exhibition (1851), commemorative  
wallpaper 166, 167
- Greenhalgh, Paul 317
- Greenwood, Thomas 144
- Gretton, Tom 98
- Guillaumin, Armand 43  
railway paintings xix–xx, 47–9, 50  
works  
*Aqueduct at Arcueil* 50  
*Railway Bridge over the Marne at Nogent* 47–8, 48  
*The Seine at Bercy* 47  
*The Seine at Ivry* 45  
*The Seine in Paris, Rainy Weather*  
46  
*Sunset at Ivry* 44–5, 44, 46  
*Works at the Pont National* 47
- Guillemin, Amédée 23, 24, 26  
*Simple explication des chemins de fer*,  
viaduct image 25
- Guinness, Ivor Grattan 206
- Guizot, François, *History of Civilization* 219
- Gully, Dr James Manby 56
- halftone techniques 82–3  
funeral of Queen Victoria 88–90

- Ivins on 83  
 photograph, reshaping 85–91  
*Scarborough Spa* 92
- halftones, criticism of 98–100
- Hall, Trevor 68
- Hamon, Philippe 301
- Hannoosh, Michele 306
- Harmsworth, Alfred 85  
*Harper's* 100, 102, 103
- Hauptmann, Gerhart, "Bahnwärter Thiel" 5–6
- Haweis, Stephen, and Henry Coles, *The Walking Man* print **118**
- Hegel, G.W.F. 218
- Helmholtz, Hermann von 15
- Hentschel, Carl 103
- Herf, Jeffrey 12–13
- Herschel, John 206  
*A Treatise on Astronomy* 252
- Herschel, William 258
- Hewison, Robert 148
- Hobbes, Thomas, *Leviathan* 164
- Hofmann, Prof August Wilhelm 61
- Holman Hunt, William 151
- Home, Daniel Douglas 64, 73
- Horsfall, T.C. 143
- Horta, Victor xxi, 163, 175  
 Hôtel Tassel designs  
 Main Stair **179**  
 Mezzanine Balustrade view **177**  
 Winter Garden **176**  
 Van de Velde, critique of 163, 175, 180
- Houssaye, Arsène 24
- Hudson, Frederick 55
- Huggins, William 63, 66
- Hugo, Victor 183
- Humboldt, Alexander von, *Cosmos* 263
- Hume, David 144
- Hunt, John Dixon, on the picturesque 164–5
- Huysmans, Joris-Karl, *A Rebours* 4, 273, 274
- Huysen, Andreas 17
- Illustrated London News* 103
- illustrators, use of photographs 93
- images  
 growth, 1890s 83–4  
 hybrid 82, 104  
 reproduction, developments 82, 86–7  
*see also* halftone techniques
- Impressionism  
 first exhibition 45  
 origins 43
- Indian Mutiny (1857) 327
- inductive scientific method, Whewell 257
- Industrial Revolution, Britain 8
- industrialization, Germany 8
- interviews, and photographs 85–6
- Irigaray, Luce 318
- Ives, Frederick 96, 104
- Ivins, William  
 on halftones 83  
 works  
*How Prints Look* 83  
*Prints and Visual Communication* 83
- Ivry  
 guidebook description 45–6  
 Guillaumin's paintings 45  
 rubber factories 45
- James, Frank 61
- James, William 74
- Jefferson, Thomas, *Notes on the State of Virginia* 250
- Juengling, Frederick 100
- Jung, Karl 74
- Jünger, Ernst 12
- Kahn, Gustave 118
- Kant, Immanuel  
*The Critique of Pure Reason* 164  
 thing-in-itself concept 164, 172
- Kelvin *see* Thomson, Sir William
- Killen, Andreas 16
- King, Katie 58, **59**, 67, 69, 72
- Kingsley, Charles, on value of art galleries 151
- Kropotkin, Peter, Pissarro, influence on 194
- Kunzle, David 284
- La Fontaine, Jean de, *Contes et nouvelles en vers* 282, **283**

- La Sylphide* 34  
 Laita, Luis M. 207  
 landscape imagery  
   Chaumont Viaduct as 28  
   and transportation 22  
 landscape settings, viaducts 26, 37  
 Lang, Fritz, *Metropolis* 16–17  
 Lankester, E. Ray 65  
 Lantier, Jacques (fictional character) 4–5  
 Laplace, Simon-Pierre 258, 259  
   *Mécanique céleste* 253  
   Whewell's critique 258–9  
 Lardner, Dionysius, *Handbooks of Natural Philosophy and Astronomy* 252  
 Larousse, Pierre, *Grand dictionnaire ...* 24  
 Laviro, G.-J.-H. 23  
 Le Havre, significance for Monet 44  
 Leighton, Frederic 152  
 Leroy, Louis 285–6  
 Les Halles market 274  
 Level, Emile, on viaducts 26  
 Levy, Max 103  
 Lewes, George Henry 60, 323  
 Lightman, Bernard 228  
 Lincoln Cathedral, Boole memorial  
   window 216, **217**, 218, 223  
 Linnaeus, Carl, *Systema Naturae* 168  
   illustration **170**  
   taxonomy, Foucault on 168  
 Locke, John 144  
 locomotives  
   anthropomorphic view of xix, 4–7  
   as embodiment of modernity 18  
   as mechanical monsters 5–7, 16  
 London Dialectical Society  
   Crookes' connection 63  
   report on spiritualism 60  
 Lorraine, Claude 165  
 Lyell, Charles, *Principles of Geology* 253  
 McDougal, William 74  
 MacHale, Desmond 216  
 machine, body as 15  
 machines  
   fear of, and female sexuality 17  
   imagery 9  
   irrationality 13  
   literary responses 8–12  
   as living creatures 8–12  
   man, fusion 13–15  
   and modernity 12–18  
   tyranny of, Butler on 9–10  
 Maclean, Hector 93  
   *Photography for Artists* 97  
 Manchester City Art Gallery 143  
 Manet, Edouard  
   *Olympia*  
     caricatures of 290  
     Valéry on 278  
   *Rue Mosnier* 188  
 Marey, Etienne-Jules 109, 110  
   *Etudes de physiologie artistique* 113  
   *La Machine animale ...* 15  
   *La Marche* **113**  
   *The Flight of the Gull* 122–3  
   *The Flight of the Pigeon* 123  
 Marinetti, F.T.  
   Futurist manifesto 10  
   on man-machine fusion 13–15  
   works  
     “A mon Pégase” 10–11  
     “Le Monoplan du Pape” 11  
 Marne, bridge, Guillaumin's painting  
   47–8, **48**  
 Marx, Karl 13  
   *Das Kapital* 8  
   *The Eighteenth Brumaire of Louis Bonaparte* 185  
 Maskelyne, John Nevil 66  
 Matthews, Samantha 210  
 Maurice, Rev Frederick Denison 209–10  
 May, Phil, *Scarborough Spa* **92**  
 Meissonier, Ernest 112  
 Melville, Herman, “The Tartarus of Maids” 8  
 Méry, Joseph 296  
 microscope  
   Fitzgerald on 236–8  
   slides **237**  
 Mill, John Stuart 97  
 Millais, John Everett 151  
   *Autumn Leaves* **152**  
 Miller, D.A., *The Novel and the Police* 320  
 Mitchell, Timothy 317

- modernism  
 Pissarro's 196  
 reactionary 12–13
- modernity  
 definition problems 18  
 as living machine 12–18  
 locomotive as embodiment of 18  
 and visual culture xvii–xviii, xxiii–xxiv
- Monet, Claude  
 Le Havre, significance 44  
 works  
*Boulevard des Capuchins* 189  
*Grain Stacks* 193  
*Impression: Sunrise* 43  
*Le Havre, Fishing Boats Leaving the Port* 43  
*Train in the Countryside* 49  
*Wild Poppies* 44
- The Moonstone* see under Collins, Wilkie
- Morin, Louis 186, 187
- Morris, William 97, 143, 149  
 stained glass window design 215–16
- Moses, Rev. Stainton 57
- Mumler, William 55
- Muybridge, Eadweard  
 motion photography 111–12, 120  
 works  
*Animal Locomotion* 113  
*Running at Full Speed* 114
- Myers, Frederic 74
- natural theology, and nature 146
- nature  
 art as mirror of 172  
 and natural theology 146  
 as reflection of the mind 164  
 Romantic view 145–6
- Needham, Gerald 284
- Newnes, George 85, 228, 231
- Niagara Falls, suspension bridge 31
- Nichol, John Pringle, *Views of the Architecture of the Heavens* 254, 256
- Nietzsche, Friedrich, on the will 174
- Nineteenth Century* 70
- North, John S. 229
- opium  
 in *Edwin Drood* (Dickens) 318  
 in *The Moonstone* (Collins) 318, 321, 322, 326, 327, 328  
*The Oracle of Reason* 212
- orrery  
 for amusement 252  
 definition 249  
 in education 250, 252  
 illustrations 250, 251  
 as metaphor xxii, 252–3  
 origins 250  
 verbal 254  
 Chambers' *Vestiges* 262–3
- Ortega y Gasset, José 156  
 on art 141  
*The Dehumanization of Art* 141
- Oxford Movement 218
- painting  
 narrative 152  
 Ruskin on 150–1
- Paley, William  
*Natural Theology* 146–7, 254  
 watchmaker metaphor 146–7, 254
- Paris, Universal Exposition 10, 125
- Paris Commune xx, 46
- Parthenon frieze, Bergson on 123
- Pearson, Arthur 85
- pen and ink sketch, and photography 91–5
- Pennell, Joseph 98
- Perdonnet, Auguste, *Traité élémentaire des chemins de fer* 47
- periodical publishing  
 1890s, images' mix 84  
 Britain, 1890s 85
- periodicals, reproduction practices 85
- Perrot, Michelle 191
- perspective, Bordet on 29–30
- Petrina, John 98
- Philadelphia, Centennial Exhibition 29
- photographs  
 19c criticism of 97  
 halftone, reshaping 85–91  
 and the interview 85–6  
 manipulation of 81–2, 85

- use by illustrators 93  
*see also* camera
- photography  
 Baudelaire on 109–10  
 Davanne on 28  
 motion *see* chronophotography  
 objects in motion 111–12  
 and pen and ink sketch 91–5  
 and the railways 27–9  
 Rodin  
   mistrust of 109, 110, 114, 119–20  
   use of 115–20, 125  
 sculpture, parallel 116  
 and wood engraving 95–104  
*see also* halftone techniques; spirit  
 photography
- photomechanical reproduction 83, 95–6
- photosculpture  
 Gautier on 121  
 invention of 121
- the picturesque, Hunt on 164–5
- Pignatelli, César 119
- Pinet, Hélène 116
- Pissarro, Camille xxi, 43, 183  
 anarchist drawings 192  
 carnival depiction 186–96  
 cityscapes 184  
 and gallery system 193, 194  
 Kropotkin's influence on 194  
 modernism 196  
 works  
   *Boulevard Montmartre, Mardi-Gras*  
   194, **195**  
   *La Mi-Carême sur les Boulevards*  
   187–8, **187**  
   *Mardi-Gras, soleil couchant, Boulevard*  
   *Montmartre* 190, **190**, 194
- Pissarro, Joachim 192
- plant organization, botanical garden  
 167–8
- Poe, Edgar Allan, *Eureka* 249, 260, 263
- Pont du Gard aqueduct 23, 24
- Possien, Adolphe 120
- Prade, Marcel 47
- Pratt, Mary Louise, *Imperial Eyes* 317
- Pre-Raphaelite Brotherhood 143, 148,  
 149, 150, 151
- La Presse* 302
- progress, J.M. Bacon on 232
- prostitutes, types 279
- Proust, Marcel, *Sodome and Gomorrhe* 290
- psychic force, spiritualism 65, 73, 74
- psychoanalysis, in *The Moonstone* 328–9
- publishing, Britain, 1890s 85
- puff*, meanings 301
- Pugin, Augustus  
*Contrasts* 213, 215  
 illustrations **214**  
 designs, stained glass windows 215  
 gothic revival 213  
 wallpapers, for Palace of Westminster  
**173**
- Quarterly Journal of Science* 62, 64
- Rabinbach, Anson 15, 112
- Rachilde, Marguerite, *Madame Adonis* 289
- radiant matter, Crookes on 74
- railways  
 France 22  
 and photography 27–9  
 and reforestation 31  
 requirements 22–3  
*réclame* 300, 302, 305, 306  
 reforestation, and railways 31  
 religion, secular, notion 212
- Rembrandt, Harmenszoon van Rijn,  
*Bearded Man in a Cap* **155**
- Reynaud, Léonce, on viaducts 23–4
- Reynolds, Sir Joshua 150
- Richards, Thomas, *The Commodity*  
*Culture of Victorian England* 241
- Richet, Charles 57
- Riefenstahl, Leni  
 on *Das Stahltier* 7  
*Triumph des Willens* 7
- Riegl, Alois, artistic will concept 174–5
- Rittenhouse, David 250
- Robert-Jones, Philippe 279
- Robida, A., "A travers le salon  
 [Andromache]" **277**
- Roche-grosse, Georges Antoine,  
*Andromaque* 275, **276**, 278  
 parody of 275, **277**

- Rodin, Auguste 109  
 on art 124  
 photography  
   mistrust of xx, 109, 110, 114, 119–20  
   use of 115–20, 125  
 working methods 121  
 works  
   *The Age of Bronze* 121  
   *The Burghers of Calais* 116  
   *Les Droits de l'Homme* 121  
   *Hand of God* 126  
   *The Little Shade* 117  
   *Man with the Broken Nose* 121  
   *Monument to Balzac* 109, **110**, 120  
     —criticism of 125  
   *Saint John the Baptist Preaching* 119  
   *Torso* 118  
   *The Walking Man* **118**, 119, 124  
     —chronophotography, effect of 126  
     —criticism of 125–6  
   *Young Girl Kissed by a Phantom* 116  
   see also Druet
- Roque, Georges 312  
   *Ceci n'est pas un Magritte* 306
- Rossetti, Dante Gabriel 151, 152
- Royal Academy 148
- Royal College of Chemistry 61
- Royal Society 58, 62, 66
- Ruskin, John xxi, 97, 139, 141, 142, 143, 148  
 on beauty 149–50  
 engraved portrait **99**  
 on painting 150–1  
 on Turner 149  
 works  
   *Modern Painters* 149, 151  
   “*The Nature of Gothic*” 150  
   *The Seven Lamps of Architecture* 149  
   *The Stones of Venice* 149
- Ryall, John 208, 209
- Samuel, Raphael 81
- Sant'Elia, Antonio 10
- Scharf, Aaron 113
- Schiller, Gottfried von 145
- Schivelbusch, Wolfgang 16
- Schnapp, Jeffrey T. 14–15
- Schopenhauer, Arthur  
   *The World as Will and Representation* 172  
   on the will 172–4
- Schor, Naomi 189
- Schorske, Carl 142, 213, 216
- Schrenck-Notzing, Dr. Albert von 57
- Schuster, Arthur 70
- science  
   definition 227  
   popularization, in *The Strand Magazine* 229–38, 244–5
- scientific inquiry, Boole on 221–2  
   see also inductive scientific method
- 'scientist', coined by Whewell 256, 257
- Scribners* 100
- sculpture  
   mechanization 120  
   photography, parallel 116  
   see also photosculture
- séance phenomena, investigations 65, 68–9
- Secord, James, on Chambers' *Vestiges* 260, 262–3
- the self  
   and colonial Other 320  
   Cousin on 219  
   disruption/integration of, in *The Moonstone* 319, 325–6, 327–9
- Sepoy Rebellion (1857) 327
- Severini, Gino 10
- Shaftesbury, Lord (Anthony Ashley Cooper), on beauty 144
- Shelley, Percy Bysshe, *Defence of Poetry* 145
- Shiff, Richard 114
- Le Siècle* 302
- Signac, Paul 43
- Simmel, Georg 312
- Sisley, Alfred 22  
   *The Bridge at Villeneuve-la-Garenne* 31, **32**  
   *Drying Nets* 32, **33**
- Smith, Adam, *The Wealth of Nations* 12
- social disruption, in *The Moonstone* 321–2, 329–30
- social improvement, and art xxi, 142, 143, 147

- Society for Psychical Research 73  
 Sombart, Werner 12  
 Somerville, Mary, *On the Connexion of the Sciences* 256  
 Soriau, Paul, *The Aesthetics of Movement* 113  
 sound  
   Bacon on 233–4  
   exploration, via ballooning **233**, 234  
 Southwell, Charles 212  
 Spengler, Oswald 12  
 Spielmann, M.H. 102  
   “The Portraits of John Ruskin” 99  
 spirit photography  
   Crookes’ support for 58–60, 66–7  
   eminent defenders of xx, 57  
   entrepreneurs 55  
   illustration **56**  
   success 55–6  
 spiritualism 55–6  
   Crookes’ investigations 64–6, 73–4  
   eminent support for 57–8  
   journals 57  
   London Dialectical Society, report 60  
   psychic force 65, 73, 74  
*The Spiritualist* 69  
 Spottiswoode, William 207  
 stained glass windows  
   Cork University 210, **211**, 212–16, 222  
   Lincoln Cathedral 216, **217**, 218, 223  
   Morris 215–16  
   Pugin 215  
 Stanford, Leyland 111  
 Stead, William T. 57  
 Sterckx, Pierre 120  
*The Strand Magazine* 102  
   advertising 241–4  
   bicycles **242**  
   cameras **244**  
   home phonograph **243**  
   watches **243**  
   content 228–9  
   popularization of science xxii, 229–38, 244–5  
   sales 228  
   Sherlock Holmes in 238–40  
 Strauss, D.F. 218  
   *Das Leben Jesu* 213  
 Sullivan, E.J. 98  
 surveillance regimes, emergence 320  
 suspension bridges 21  
   ballet, link 34  
   Basse-Chaine Bridge, collapse 34–5  
   Bridge at Villeneuve-la-Garenne 31, **32**  
   Constantine Bridge, collapse 35, **36**  
   Fribourg Bridge, Switzerland 34  
   images of 22  
   Niagara Bridge 31  
   origins 33  
   uses 31  
   vulnerability 35, 37  
 Switzerland, Fribourg Bridge 34  
 Taglioni, Marie 34  
*Le Tam-Tam* 302  
 Tardieu, Ambroise 284–5, 287  
   *Etude medico-légale sur les attentats aux moeurs* 285  
 technophilia 12  
 Thénot, J.P., *Traité de perspective pratique* 24  
 Thérond, Emile, *Viaducts and the Landscape* **25**  
 thing-in-itself concept  
   Kant 164, 172  
   as the will 172  
 Thomas, Ronald 326  
 Thomson, Sir William (Lord Kelvin) 15  
*Le Tintamarre* 302, 311  
 Titian, *Danaë* **154**  
 Todhunter, Isaac 207  
 transportation, and landscape imagery 22  
 Turgan, Julien 45  
 Turner, J.M.W., Ruskin on 149  
 Tyndall, John 60, 69  
 Universal Exposition, Paris 10, 125  
 universe  
   design 254, 259  
   Whewell’s inductive argument 259–60  
   mechanistic 253, 258

- Valéry, Paul, on Manet's *Olympia* 278
- Van de Velde, Henry, Horta's critique of  
163, 175, 181
- Van Gogh, Vincent 43
- Varley, Cromwell 57, 62–3, 66
- Varnedoe, Kirk 117
- veau*, meaning 273, 275
- Verein für Gewebfleiss* (Union for Business Diligence), founding 3
- viaducts 49–50  
Dumas on 23  
images of 22, 24, 25–6, **25**, 49–50  
landscape settings 26, 37  
Level on 26  
Reynaud on 23–4  
symbolism 21, 23  
*see also* Chaumont Viaduct
- Vialles, Noëlie 290
- La vie parisienne* 279
- Vienna, Universal Exposition 29
- Villiers, Frederick 93
- visual culture, and modernity xvii–  
xviii  
*see also* images
- Vizetelly, Henry 102
- Volckman, William 67
- Wailes, William 215
- Wallace, Alfred Russell 57
- wallpaper  
art-nouveau 163  
natural world, representations of  
164–71  
panoramic 165–6, **167**  
*Poppies and Birds* **171**  
Pugin's, for Palace of Westminster  
**173**  
sample books 170–1, **172**  
taxonomic 166–71, **169–71**
- Wandel, Torbjörn 18
- Ward, Henry Snowden, and Catherine  
W. Ward, *Photography for the Press*  
88–90
- Ward, Martha 193
- Washington, George 250
- watchmaker metaphor, Paley 146–7, 254
- Watt, James, centennial celebration 3
- Watts, G.F. 152
- Watts, Theodore 210
- Wells, H.G., "The Lord of the Dynamos"  
10
- Whewell, William  
critique of Laplace 258–9  
on the eye 257–8  
inductive scientific method 257  
qualifications 256  
'scientist', coiner 256, 257  
universe design, inductive argument  
259–60  
works  
*Astronomy and General Physics* 249,  
258–9  
—sales 256  
*The History of the Inductive Sciences*  
257  
*Novum Organon Renovatum* 257  
*The Philosophy of the Inductive  
Sciences* 257
- Whistler, James McNeill 97  
on art 139–41  
"Nocturne in Black and Gold" 139,  
**140**  
"Ten O'Clock Lecture" 139
- White, Joseph Gleeson 95  
*Practical Designing* 94
- Wilde, Oscar, *The Decay of Lying* 155
- the will  
artistic, Riegl's concept 174–80  
Nietzsche on 174  
Schopenhauer on 172–4  
as thing-in-itself 172
- Willème, François 121
- Williams, Raymond 146
- Winston, Charles, *Inquiry ... Ancient Glass  
Paintings* 215
- wish image concept, Benjamin 184–5,  
191
- Wolf, Henry 100
- wood engraving 84  
American School 102  
image superiority of 103  
New School 100, 104  
and photography 95–104  
pros and cons 86

Wright, Joseph, *Philosopher Giving a  
Lecture on the Orrery* 250

Wyles, Benjamin 243  
on the camera 234–5

Yeo, Richard 256

Young, Robert 147

Zielke, Willy, *Das Stahltier* 7

Zola, Emile

*Au Bonheur des Dames* 48

*La Bête Humaine* 4, 13

*La Débâcle* 13

*Le Ventre de Paris* 274

zoopraxiscope 112