

- Simultaneous action on the retina of
 three primary colours, 157
 Simultaneous contrast, 162
 Skin sensations, 175
 Smoking paper, 12
 Smooth muscle, 41
 Sodium chloride, influence of on lymph
 flow, 199
 Sodium ions, action of, on cardiac
 muscle, 57
 Sound waves, diagrams, 167, 168
 Sodium nitrite, effect of, on blood ves-
 sels of the frog, 70
 Sound waves, transmission of, in the
 ear, 169
 Space and depth, judgments of, 163
 Special senses, 123
 Spherical aberration, 133
 Sphygmie period, 86
 Spinal cat, 233
 Spinal nerve roots, function of, frog, 93
 functions of mammal, 223, 235
 Spirometer, Tissot-Carpenter, 103
 Splanchnic nerve stimulation effect on
 blood pressure, 76
 stimulation, effect of, on kidney
 "volume," 187
 Spreading of reflexes, 90
 "Staircase" effects, 32
 Staunins ligature, 60
 Stereoscopic vision, 165
 Stewart's colorimeter, 194
 method for measurement of blood
 flow, 193
 Stimulation, 13
 electrical, 9
 Submaxillary gland, secretion of, 204
 Summation of inadequate stimuli, 46
 of smooth muscle, 42
 from two stimuli, 35
 Suspension method for heart con-
 traction, 60
 Table
 percentage of oxygen equivalent to
 nitrogen in expired air, 236
 temperature corrections to reduce
 readings of a mercurial
 barometer with a brass
 scale, 236
 tension of aqueous vapour, 236
 for reducing gaseous volumes to
 normal temperature and pres-
 sure, 237
 of respiratory quotients, 238
 Taste, 180
 Temperature, effect of, on contraction,
 27
 Temperature sense, 175
 effects on cardiac muscle of frog, 57
 effects on cardiac muscle of turtle,
 62
 Tension of aqueous vapour, 236
 Tetanic nature of voluntary contrac-
 tion, 34
 Tetanus, 33
 analysis of, 36
 of smooth muscle, 42
 Thermal stimulation, 15
 Thoracic duct, dissection for exposure
 of, 198
 Tissot-Carpenter spirometer, 103
 method for determining respiratory
 exchange, 102
 Tone of smooth muscle, 42
 Touch, sense of, 177
 Transfusion, effect, on blood pressure, 78
 Transmission of sound waves in the ear,
 169
 Trienspid valve, operation of, 201
 Turtle heart, study of, 61
 Two stimuli, summation from, 35
 Vagus, influence on heart, 58
 influence on respiration, 183
 nerve in the frog, location of, 21
 stimulation, effect on blood pres-
 sure (dog), 71
 stimulation, effect on blood pres-
 sure (rabbit), 82
 stimulation effect on the heart of
 the turtle, 59
 Valves of the heart, action of, 203
 Vasoconstrictor nerves, demonstration
 of in cervical sympathetic, 80
 fibres, demonstrated by the ple-
 thysmograph, 185
 Velocity of the nervous impulse, 46
 of nervous impulse, method for
 determining, 47
 of transmission of pulse wave, 81
 Venous curve, interpretation of, 86
 pulse curve, 86
 Veratrine, influence of, on contraction,
 31
 Vision, 123
 Visual axis, 135
 Volume of a contracting muscle, 24
 Voltage, 9
 Voluntary muscle, 13
 contraction, tetanic nature of, 34
 Wave of contraction, 24
 Work, load and, 30
 Writing point, 12
 Young-Helmholtz theory of colour
 vision, 157