

INDEX.

The numbers refer to the Articles.

- Anallagmatic transformation, 227
Associated systems of reguli of congruence (2, 2), 118
Automorphic transformation, 40
Axis (of a linear complex), 22; (of a quadric), 102
Axes of a system of two terms, 56
- Battaglini (complex of), 89, 110
Bilinear equations, 47, 99
Bitangent linear complex, 131
- Canonical form of the equation of a quadratic complex, 73, 161
Caporali's theorem, 123, 146
Centre of a quadratic complex, 143
Characteristic curves of a partial differential equation, 290
Chasles (method of formation of linear complex), 32
Class (of a congruence), 233
Clebsch, 87, 287
Clifford's theorem, 286
Closed system of 16 points and planes, 14, 62
Collinear (sheaves), xi; plane systems, xiii
Collineation, xiv, 34
Complex surface, 86
Confocal congruences (2, 2), 120; (2, n), 263
Confocal cyclides, 221
Congruence 1, 233, 281; (special), 54
Conjugate (points of a fundamental curve), 144; (diameters of C^2), 143; (singular points of a congruence), 256
Constants (of a canonical form of a quadratic complex), 213; (number of, in the general complex), 279
Contact transformation of space, 295
Correspondence ((1, 1) for cosingular complexes), 116
Cosingular complexes, 114
- Curves (of a linear complex), 41; (of a tetrahedral complex), 105
Cuspidal curve of focal surface, 246
Cylindroid, 57
- Deficiency, 68
Degree of a quadratic complex, 160
Diameter (of a linear complex), 22; (of a quadratic complex), 79, 142
Differential equation of a tetrahedral complex, 103
Directrix (of a linear congruence), 51; (of a ruled surface), 67
Double curve (of ruled surface), 70; (of focal surface), 246
Double line of a quadratic complex, 156
Double ratio, i ; (of a pencil), 11; (of two complexes), 52; (of four complexes), 53
Double ray of a congruence, 252
Double tangents of a Kummer surface, 83
Dupin's Cyclide, 220
- Elementary divisors of Weierstrass, 149
Elliptic coordinates of a line, 130
- Field of a regulus, 116
Focal surface of a congruence, 119, 236, 281
Fundamental (relation between coordinates), 3, 9; (linear complex), 16; (quadrics), 61; (curve), 144; (pencil), 144
- Generator (singular), 70
- Halphen's theorem, 234
Harmonic (complex), 89, 110; (involution), v
Hexaspherical coordinates, 230
Hirst, 93
Hyperplane, 222
Hypersphere, 226

- Intersection of lines (condition of), 5, 9
 Invariant (of a linear complex), 18; (of sets of linear complexes), 64
 Involution, iv; (general), xv; (cubic), xvi; (on a conic), x; (on a twisted cubic), xvi; (of two linear complexes), 25; (of three linear complexes), 26; (of six linear complexes), 27
 Involutory (reciprocity), 36; (position of two lines), 133
 Kummer configuration, 268
 Kummer surface, 82, 83, 84, 85
 Linear complex, 16
 Line element, 104
 Metrical properties of a linear complex, 55
 Minimal line, 217
 Monge equation, 289
 Normal complex, 102
 Normal form of equation (of a quadratic complex), 87; (of a general complex), 287
 Null-plane of a congruence (2, n), 250
 Null-sphere, 221
 Null-system, 37
 Order of a congruence, 233
 Painvin's complex, 113
 Parameter (chief, of a linear complex), 23
 Pentaspherical coordinates, 221
 Perspective (centre and axis of), vi
 Plane system, 13
 Plücker (complex) surface, 79, 86, 91
 Polar (lines in a linear complex), 17; (surface), 44; (of a line for a quadratic complex), 79; (plane of any point for C^2), 140; (point of any plane for C^3), 141
 Power of a point, 221
 Principal surfaces, 132, 228, 278
 Principal tangent curve on a Kummer surface, 80
 Projective formation of the quadratic complex, 122
 Quadric (complex equation of), 46, 60, 88, 107
 Rank (of a surface), 44; (of a curve), 43; (of a congruence), 232; (of a focal surface), 247
 Ray, 233
 Reciprocity (of space), 34
 Regulus, viii
 Residual of five linear complexes, 65
 Reye's complex of axes, 102
 Ruled cubic and quartic surfaces, 66
 Schumacher's correlation, 224, 241
 Sheaf, xi
 Singular (points and planes of a quadratic complex), 75; (lines), 76; (lines of the second and third orders), 80; (surface), 77, 82, 275; (points of a congruence), 238; (generator of a ruled surface), 284
 Special (linear complex), 19; (complex), 280
 Sphere-circle, 55
 Staudt's (von) theorem, 12
 Steiner's Roman surface, 203
 Surface element, 218
 Sylvester's method of formation of the linear complex, 39
 Symbolic form (of equation of quadratic complex), 91; (of equation of general complex), 287
 System (of two terms of linear complexes), 51; (of three terms), 58; (of four and five terms), 63
 Systems of lines, xii
 Tangent linear complex, 74, 157, 275
 Tetrahedra (the 15 principal), 29
 Tetrahedral complex, 92
 Tetrahedroid, 111
 Trajectory circle, 296
 Triplex (of reguli), 116
 Twisted cubic, xii, 95
 United points, iii
 Voss, 52, 53, 70, 281, 284
 Weber groups, 269