

Index

- k*-algebra
 - center of a , 4
 - central, 8
 - definition, 3
 - morphism, 3
 - quaternion, 8
 - simple, 7
 - split, 9
- absolute discriminant, 259
- absolute value
 - p -adic, 262
 - archimedean, 249
 - definition, 249
 - discrete, 250
 - equivalence, 249
 - extension, 251
 - non-archimedean, 249
- absolutevalue
 - extension
 - totally ramified, 251
 - ramification index, 251
 - ramified, 251
 - residual degree, 251
 - unramified, 251
- bimodule, 82
- Brauer equivalence, 46
- Brauer group, 81
 - relative, 82
- canonical involution, 228
- centralizer, 31
- coboundary, 113
- cocycle, 104
- codebook, 13
- coding gain, 14
- coherence interval, 12
- coherent, 13
- cohomologous cocycles, 113
- corestriction, 195
- crossed product, 107
- cyclic algebra, 130
- decomposition group, 261
- degree, 46
- different ideal, 259
- differential modulation, 209
- discriminant ideal, 259
- diversity, 14
- elementary tensor, 233
- exponent, 95
- fading matrix, 11
- Frobenius map, 253
- fully diverse code, 14
- Goldman element, 86
- Hasse symbol, 138
- ideal (ramification)
 - inert, 255
 - ramification index, 255
 - ramified, 255
 - tamely ramified, 255
 - totally ramified, 255
 - totally split, 255
 - unramified, 255
 - wildly ramified, 255
- index, 46
- information symbol, 12
- inner automorphism, 43
- involution
 - definition of an, 189
 - of the first kind, 189
 - of the second kind, 189
- local parameter, 251
- MIMO, 11
- module
 - definition, 35
 - finitely generated, 36
 - free, 37
 - morphism, 36
 - rank, 41
- non-coherent, 209
- norm of an ideal

- absolute norm, 258
- relative norm, 258
- number field, 253
- opposite algebra, 34
- place, 249
 - complex, 262
 - finite, 262
 - real, 262
- prime ideals
 - residual degree, 255
- ramification groups, 261
- rate, 14, 17
- reduced characteristic polynomial, 63
- reduced norm, 66
- reduced trace, 66
- residue field, 250
- restriction map, 82
- ring of integers, 253
- Sandwich morphism, 35
- semilinear map, 191
- simple
 - module, 39
- SNR, 13
- space-time codes, 13
- splitting field, 53
- subalgebra
 - definition, 3
- subfield, 9
- submodule, 36
- tensor product
 - of algebras, 5, 243
 - of vector spaces, 231
- trace form, 76
- valuation ring, 250