

# Table of Contents

In lieu of a foreword	16
Basic definitions and abbreviations	20
Chapter I	
Material and major corrections of piece values	21
The piece values	21
General remarks concerning the piece values	21
Piece square tables	22
King psqt	22
Pawn psqt	23
Knight psqt	23
Bishop psqt	24
Rook psqt	24
Queen psqt	25
Pawns on squares the colour of the own bishop	25
Specific conditions amplifying or changing the weakness	26
Blocked pawns on squares the colour of the bishop	26
Central and semi-central blocked pawns on squares the colour of the bishop	27
Central d4/e4 isolated pawn, blocked by an enemy minor outpost	28
d3/e3 twice backward pawn on square the colour of the bishop	28
Special rule for the imbalance knight vs bishop	29
Special rule with bishop on more advanced ranks	29
Knight with blocked pawns	30
Bishop vs knight with pawns on both wings	32

Chapter II	
Mobility	33
Knight mobility	34
Bishop mobility	34
Rook mobility	35
Queen mobility	36
King mobility	37
Pawn mobility	38
Available double pawn pushes	40
Low and zero mobility pieces	41
Low mobility pieces on the edge	41
Zero mobility pieces on the edge	42
Zero mobility pieces not on the edge	43
Zero mobility king	43
Permanently trapped minors	45
White knight on b1, trapped by enemy pawns	45
White knight on a1, trapped by own pawns	46
White bishop on b1 or a2, trapped by own pawns	46
White knight on b1,a2,a3 or c1, trapped by own and enemy pawns	47
White bishop on c1,b2 or a3, trapped by own pawns	47
Self-trapped bishop	49
Chapter III	
Pawns	50
Strong pawns	50
Aligned pawns	50
Defended pawn	51

Distant neighbours	52
Very distant neighbours	53
Blocked pawns	54
Levers	56
Outer central levers	57
Defended outer central lever	57
Unopposed lever on the 4th rank	58
Lever on the 3rd rank	58
Passed pawns	59
Protected passed pawns	60
Connected passed pawns	60
Minor pieces blockading passers	61
Centralised blockading minors	62
Pieces attacking the square in front of an own or an enemy passer	64
King supporting passed pawn	64
Restricting passer	65
Spearhead connected passer	66
Rollercoasters	69
Unstoppable passed pawn	71
More pieces with passed pawns	72
Passer-makers	72
Potential passers	73
Pair of potential passers	75
Mainstays	75
Compact pawn structures	76

Twice aligned pawns	79
Twice defended pawn	80
Defended aligned pawn	80
Defending aligned pawn	81
Long chain pawn	82
Very long chain pawn	83
Spearheads	84
Weak pawns	85
Undefended pawns	85
Isolated pawns	85
Fixed isolated pawn	87
Knight and pawn immobilising enemy isolated pawn	87
2 pawns controlling the square in front of an enemy isolated pawn	88
Pawn controlling the square in front of enemy doubled isolated pawn	88
Pair of central isolated pawns	89
Vertically isolated pawn	90
Squeezed pawn	91
Doubled pawns	92
Distance between doubled pawns	94
Restricting enemy doubled pawn on its 3rd rank	95
Blocking an enemy doubled pawn on its 3rd rank	95
Pair of doubled pawns on adjacent files	96
Tripled pawn	96
Backward pawns	97
Standard backward pawn	97

Twice backward pawns	98
Twice backward feature	100
Semibackward pawn on the 2nd rank	102
Unbackwarded pawn	103
Backwardmakers	104
Unopposed backward-maker on the 5th rank	104
Central unopposed chain backward pawn	105
Central backwardmakers	105
Distant backward pawn	108
Backward long chain pawn blocked condition	109
Minor piece controlling the square in front of enemy backward pawn	110
Root pawn	110
Attacking root pawns	110
Double root pawn	111
Control of center	112
Central piece attacks	112
Minor piece simultaneously attacking with an own pawn one of the 4 centralmost squares: e4,e5,d4,d5	113
White pawns on e4,d4, black pawns on e5,d6; or white pawns on e4,d4, black pawns on d5,e6	113
The best move or semi-central pawns controlling the center	115
Central bind	118
Closed position considerations	119
Closed center	119
Space advantage with closed center	120
Pointed chains	121

Inchoative pointed chains of 2 pawns	123
Larger inchoative pointed chains	124
Central chain knight blockade	125
Fully closed side with space advantage on the other side of the board	126
Weak spots	128
Own minor pieces controlling a weak spot	129
Symmetrical aligned pawns	129
Pawn span	131
Space advantage on both sides of the board	133
 Chapter IV	
Outposts	134
No-pawn-defended outposts	135
Single-pawn-defended outposts	136
Twice-defended outposts	137
Twice-defended knight outposts on the 5th rank with no enemy pawns on the same file as the outpost on more advanced ranks	138
Permanent minor piece outposts	139
Outposts blocking enemy pawns	141
Useless outposts	143
Unretreatable knight outposts	144
Semi-outposts	145
Minor piece behind an own pawn	145
Minor piece with an own pawn diagonally in front of it	145
Minor piece with an own pawn on the same rank across a file	146
Minor piece on the 4th rank with an enemy pawn on its second rank on adjacent file that is backward	146

Minor piece with another own outposted minor one rank in front on adjacent file	147
Minor piece on the 4th rank with another own minor piece outposted on the 6th rank on adjacent file	147
Knight on the 5th rank with enemy knight on the 6th rank on adjacent file	148
Minor outposts on the 7th rank defended by a pawn	148
Twice defended knights	149
Rook outposts	150
Rook on the 6th rank, defended by pawn	150
Rook on the 7th rank, defended by pawn	151
Twice defended rook on the 6th rank	151
Rook outposts blocking enemy pawns	152
Penetration points	153
Chapter V	
Imbalances	155
Pair of bishops	155
Pair of bishops with enemy side having no bishops	156
Pair of rooks vs queen	157
2 minor pieces vs rook	158
Queen and knight	158
Queen and pair of knights	159
Rook and bishop	159
Pair of rooks	160
Pair of knights	161
Rook, knight and bishop	162
Queen and bishop vs queen and rook	162

Queen vs 3 minor pieces	163
Queen vs rook and 2 minor pieces	164
Queen vs 2 rooks and a minor piece	165
Rook vs 3 minor pieces	166
3 minor pieces vs 2 rooks	167
Rook and minor piece vs queen	167
2 minor pieces vs queen	168
Queen pair	170
One side having one piece more	171
One side having 2 pieces more	172
One side having 3 pieces more	172
Opposite colour bishops with one side having a piece more	173
Chapter VI	
King safety	173
Enemy king attack	174
King shelter	174
Pieces attacking the enemy king shelter	175
X-ray attacks upon the enemy king shelter	176
The knight attack that does not fit anywhere	176
Unchallenged attacking bishop	177
Bishop shelter attacks with opposite colour bishops	177
Bishop pair with kings on opposite sides of the board	178
Additional piece-attacking considerations	179
Rook on open edge file with enemy king on adjacent file	179
Rook on g or b open file with enemy king on adjacent edge file	180



Rook on the same closed file as the enemy king	181
Rook on adjacent closed file as the enemy king	181
Queen on the same closed file as the enemy king	181
Rook on the same semi-closed file as the enemy king	182
Rook on adjacent semi-closed file as the enemy king	182
Kingside presence of pieces	182
One open and one semi-open file or 2 semi-open files against the enemy king position	183
Storming pawns	184
Unblocked storming pawns	185
Blocked storming pawns	186
Storming pawns with kings on different sides of the board	187
Openers	188
All storming pawns blocked	189
Edge storming pawn blocked by enemy king	189
Twice defended storming pawn on f5 or c5	191
Minor piece controlling the square in front of an own or an enemy storming pawn	193
Filling the gap	194
Pawn shelter	194
Isolated pawn of the king shelter	196
Doubled pawn of the king shelter	196
Backward pawn of the king shelter	197
Twice backward pawn of the king shelter	198
Semi-backward pawn of the king shelter	200
Weak spots of the king shelter	201
Own minor pieces defending a weak spot of the king shelter	202

Colour deficiency with weak spots of the king shelter	202
King safety related queen pins	203
No pawn shelter	205
No own pawn on the 2nd rank within the shelter	206
Single own pawn on the third rank within the shelter	207
Minor piece shelter	207
Minor piece on the 3rd rank within the shelter	208
Minor piece shelter defence	208
Minor outpost stopping enemy rook on an open file, with own king on the same or adjacent file as the rook	209
Immobile shelter pawns	209
King on a fully closed side	211
Exposed king with blocked center	212
King in the center sheltered by defended pawn	213
King on semi-central file, sheltered by a defended pawn	213
Kingside fianchetto	214
Trapped rook	217
Temporary prevention of castling	218
Ability to immediately castle	219
Chapter VII	
General piece activity and coordination	220
Attacks among pieces	220
Direct attacks upon enemy pawns and pieces	220
Penalty for pieces attacking an enemy defended pawn	224
Forks	225
Hanging pawns and pieces	225

X-ray attacks	226
X-ray attacks past the second intermediary object	228
Checks	230
Safe checks	230
Unsafe checks	231
Double checks	231
Potential checks	232
Potential discovered checks	232
Pins	234
King pins	234
Queen pins	235
Skewers	236
Pawn defence	237
Piece defence	238
Defending pawns	240
Minor piece defending passed pawn	241
Central isolated pawn, defended by minor	241
Undefended pieces	242
Rook on a semi-open file, attacking an enemy pawn-undefended pawn, defended by a minor	243
Threats	243
Safe pawn push threat	243
Unsafe pawn push threat	244
Tactical levers	245
Tactical pawn threat	246

Tactical lever threat	246
Knight attack threat upon enemy queen	248
Rook on open file	248
Queen on an open file	249
Rook on a semi-open file	249
Queen on a semi-open file	250
Rook on the 7th rank	250
Queen on the 7th rank	251
Doubled rooks on the 7th rank	251
Doubled rook file control	252
Royal battery	253
Continuous rook control	254
Rook on the same file as enemy queen	255
Queen and bishop battery	255
Minor outpost stopping enemy rook on an open file	257
Minor piece attacking a square on the 8th rank on an open file, simultaneously attacked by an enemy rook	258
Minor piece attacking a square on the 1st or 2nd ranks on an open file, simultaneously attacked by an enemy rook	259
Rook supporting a friendly pawn from behind	259
Preventing enemy minor penetration	260
Stopping bishops on long diagonals	261
Raking bishops	262
King restricted on an edge line	263
Pawn support for rook on an open file	264
Queen controlling the center	264

X-ray square control	265
Bishop x-ray-attacking the center	265
Queen x-ray-attacking the center	266
Bishop x-ray-attacking the square in front of enemy backward pawn	266
Bishop x-ray-attacking the square in front of enemy shelter backward pawn	267
Scaling down of different positions and endings	268
Scaling down of too closed positions	268
Horizontal pawn symmetry	269
Opposite colour bishops	269
Pairs of bishops endgame	270
General endgame scaling	271
Scaling with reduced number of pawns in the eg	272
Scaling of rook endgames	273
Rook vs queen fortress in the endgame	273