Jesús de la Villa

100 Endgames You Must Know

Vital Lessons for Every Chess Player

Fourth, Improved Edition New In Chess 2015

© New In Chess First Edition May 2008 Second Edition August 2009 Third, Improved and Extended Edition November 2012 Fourth, Improved Edition September 2015 Published by New In Chess, Alkmaar, The Netherlands www.newinchess.com

All rights reserved. No part of this book may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission from the publisher.

Cover design: Ron van Roon Translation: Patricia Llaneza Vega Correction: Steve Giddins Supervisor: Peter Boel Proofreading: René Olthof Production: Anton Schermer

ISBN: 978-90-5691-617-6

Contents

Introduction		
1. Basic ending	s	
Ending 1	The rule of the square	
Ending 2	The pawn is on the 6th rank	
Ending 3	Key squares	
Ending 4	The rook's pawn. Defending king in front of the pawn 37	
Ending 5	Imprisoning the stronger side's king	
Ending 6	Rook vs. Bishop. The wrong corner	
Ending 7	Rook vs. Bishop. The right corner	
Ending 8	Rook vs. Knight. At the edge of the board	
Ending 9	Rook vs. Knight. In the corner	
2. Basic Test		
U	wn	
Ending 10	Knight vs. 7th-rank pawn 51	
Ending 11	The knight's pawn	
Ending 12	The 6th-rank rook's pawn	
Ending 13	The 7th-rank rook's pawn	
Ending 14	King + Knight checkmate	
Ending 15	The knight's dumb square	
4. Queen vs. Pa	wn	
Ending 16	Queen vs. 7th-rank pawn	
Ending 17	Queen vs. 7th-rank rook's pawn	
Ending 18	Queen vs. 7th-rank bishop's pawn	
Ending 19	A too-frequent trick	
Ending 20	Queen vs. Queen	
5. Rook vs. Paw	/n	
Ending 21	Kings do not push. Just counting	
Ending 22	Defending king on the 3rd rank cut off along a rank	
Ending 23	Strong king behind the pawn	
Ending 24	Stronger side's king on one side	
Ending 25	The rook in front of the pawn	
Ending 26	Special themes with a knight's pawn	

5

Ending 27	The rook's pawn. Pushing from the rear	79
Ending 28	The rook's pawn. Lateral push	80
Ending 29	The pawn wins against the rook	82
	Pawns	
Ending 30	Kings play no part	
Ending 31	Both kings play a part	
Ending 32	Only the defending king plays a part	85
	red bishops: Bishop + Pawn vs. Bishop	
Ending 33	Driving off the defending bishop	
Ending 34	In the rear of the pawn	90
Ending 35	The short diagonals	
Ending 36	Frontal defence	93
8. Bishop vs. K	Inight: one pawn on the board	96
Ending 37	Central pawn	
Ending 38	The rook's pawn	
Ending 39	The pawn is on the 7th rank	. 101
Ending 40	Unstable position of the controlling knight	. 103
9. Opposite-col	loured bishops: Bishop + 2 pawns vs. Bishop	
Ending 41	Pawns on the 6th rank	
Ending 42	Pawns on 5th rank or behind	. 106
Ending 43	A very special pair of pawns. The cage	
Ending 44	Pawns separated by just one file	
Ending 45	Controlling both pawns along the same diagonal	
Ending 46	The winning procedure	
Ending 47	Knight's and central pawn	
Ending 48	Central and rook's pawns	
Ending 49	Bishop's and knight's pawns	. 118
Ending 50	The attacking bishop controls the promotion square of the	
	knight's pawn	
Ending 51	Central and rook's pawns	. 120
10. Rook + Pav	vn vs. Rook	. 123
Ending 52	The Philidor Position	
Ending 53	Lucena Position. The bridge	
Ending 54	The long side	
Ending 55	The knight's pawn. First-rank defence	
Ending 56	Central or bishop pawns. Kling and Horwitz (K&H) defense	
	technique	
Ending 57	Central 6th-rank pawn. Rook with distant effectiveness	
Ending 58	Central 6th-rank pawn. Rook without distant effectiveness .	. 134

Ending 59	Cutting off along one file	. 136
Ending 60	Defending king cut off by two files. Grigoriev's combined	
	method	. 138
Ending 61	King cut off along two files vs. long side. Mating themes	. 140
Ending 62	Perfect Cut along a rank	. 141
Ending 63	Imperfect Cut along a rank	. 143
Ending 64	Apparent Cut along a rank	. 144
Ending 65	Pawn on the 7th rank. Attacking rook in front of the pawn .	. 145
Ending 66	Pawn on the 6th rank. The Vancura Defence	. 146
Ending 67	The king is in front of the pawn and the pawn is on the 7th	
	rank	. 150
Ending 68	The rook and the king support the pawn	. 152
11. Rook + two	Pawns vs. Rook	. 153
Ending 69	Central pawns	. 153
Ending 70	Knight's pawns	. 155
Ending 71	Defending king cut off on the back rank	. 157
Ending 72	Bishop's pawn on 5th rank	. 158
Ending 73	The defensive procedure	. 160
Ending 74	Blocked connected pawns	. 165
Ending 75	Attacking rook stuck in front of the 7th-rank pawn	. 167
Ending 76	Vancura Defence against 2 pawns	. 168
12. Pawn endin	gs	. 169
Ending 77	Doubled pawns	. 169
Ending 78	Isolated pawns	. 170
Ending 79	Blocked pawns. Key squares.	. 172
Ending 80	Less advanced (or rook's) blocked pawns	. 174
Ending 81	Pawns on adjacent files	. 177
Ending 82	Passed pawns. Dual-purpose king manoeuvres	. 177
Ending 83	Rook's pawns and one distant passed pawn	. 181
Ending 84	The passed pawn is central and near	. 184
Ending 85	A passed Bishop's pawn on the same wing	. 187
Ending 86	The defending side has moved his pawn. Triangulation	. 188
Ending 87	Knight's and rook's pawn against rook's pawn	. 190
Ending 88	King against 2 passed pawns.	. 196
Ending 89	Protected passed pawns	
Ending 90	Distant passed pawns	. 200
Ending 91	Doubled pawns	. 201
Ending 92	Breakthroughs when the king is far	. 202
13. Other mater	rial relations	. 204
Ending 93	Checkmating with Bishop and Knight	
Ending 94	The king is on the edge	

100 Endgames You Must Know

	Ending 95	The king is far from the edge. Cochrane Defence
	Ending 96	Second-rank defence
	Ending 97	Rook + 6th-rank bishop's pawn
	Ending 98	Rook + rook's pawn vs. Bishop
	Ending 99	Queen vs. Rook + Pawn
	Ending 100	Queen vs. Rook + Rook's Pawn
15.	Appendix	
Bib	liography	

5. Rook vs. Pawn

This is one of the most important chapters in this book, and the most important in this section about a piece fighting against a single pawn. Experience shows that rook endings are the most common endings in practice, and also the most complex, and that is why the chapter on rook endings is the longest in the book. Besides, many rook endings end up in a Rook vs. Pawn(s) ending when one of the players is forced to give up the rook for a passed pawn.

On the other hand, this struggle is much more complex than Queen vs. Pawn or Knight vs. Pawn, because any complexities in those are restricted to positions where the pawn is on the 7th rank or, exceptionally, on the 6th. But in Rook vs. Pawn endings, the struggle can be complex regardless of which rank the pawn stands on.

An experienced player who knows the themes and has time on the clock can calculate every single line with accuracy; however, sometimes it is not that easy. In any case, if the player is not familiar with the subtleties hidden in this ending, the task is simply impossible.



In order to solve these endings, the first approximate method is counting tempi: for the attacker, the tempi needed for both rook and king to control the promotion square; for the defender, the tempi needed for the king to secure promotion and for the pawn to reach its goal.

Unfortunately, this simple technique only works when no special circumstances alter the calculation, and that hardly ever happens in this ending.

A typical scenario where simply counting works occurs when the kings stand at different sides of the pawn; nevertheless, great care is needed even in those cases.

In the diagram position the kings will not meet, rook checks do not win tempi and there are no more special circumstances. That is why a simple count works. White needs 5 tempi to control the promotion square with both king and rook, whereas Black needs 5 tempi to promote. The conclusion is clear: if White is to move, he wins; if Black is to move, he draws.



1.ģg5!

Everything looks easy but, even in this position, if White changes the move order and starts 1.邕c8?, Black can interfere with White's plan and draw thanks to a brilliant move: 1... 堂c3! We will see the virtues of this move further on.

In practical play, things are hardly ever that easy. In the next examples we will discover the different resources both sides have at their disposal in order to 'interfere with the natural course of events'.

Kings push... a bit



This position is very easy to solve, on the basis of the same principles as the previous one. With this we can complete our view of the issue. Euwe studied these positions in the 1930s and stated that, in 5.2, White only draws when the king occupies one of the marked squares, and wins in any other case. For instance, in this diagram it takes the king 5 tempi to arrive on time to control promotion, whereas Black needs 4 to secure it. That means White arrives on time if he has the turn.

The study of this diagram makes us think that there is a large area where a simple count works. It can work even if the king is on the same file as the defender, unless his way is blocked, as here.

1.\$\$e6 e3 2.\$\$d5 e2 3.\$\$d4 \$\$f3 4.\$\$d3 \$\$f2 5.\$\$d2 1-0

ENDING 22 Defending king on the 3rd rank cut off along a rank

When the king and his pawn are still further from promotion (in general, whenever they have not crossed the middle line of the board), cutting off the king is a very important resource: if it works, the rest does not matter.

Cutting the king off is very useful when the defender's king is on the third rank, and it wins straight away when we are dealing with a rook's pawn or when the king

9. Opposite-coloured bishops: Bishop + 2 pawns vs. Bishop

ENDING 41 Pawns on the 6th rank



On the 6th rank, the pawns usually win. The winning procedure is quite easy, but it is worth noting in order to become familiar with the required technique.

The white pawns cannot advance: not to e7 because then Black would give up his bishop for the two pawns, and not to f7 because then both pawns would be block-aded on squares of the same colour as the white bishop. This blockade is impossible to lift and is one of the trademarks of opposite-coloured bishop endings. So White cannot think of advancing the pawns, and instead they have to stay on the 6th rank, until the right moment comes to move e6-e7.

The plan consists of two clear stages:

1) A bishop check to force the enemy king to define his position...

1. ②b5+ ③d8 (if 1... **③**f8, White carries out the same plan on the other flank: 2. **③**d5 **③**a3 3. **④**c6 **④**b4 4. **④**d7 **④**c5 5.e7+) **2. ④**f5, and:

2) The attacking king outflanks his opponent.

This plan would not be possible with the black king on f8 and the black bishop on d8, but then White could lose one tempo and Black would be in zugzwang. We will see this in our next example.

2...ዿc5 3.ģg6 ዿb4 4.ģf7 ዿc5 5.e7+ 1-0

The bishop in front of the pawns



100 Endgames You Must Know

Fifth scenario

ENDING 76 Vancura Defence against 2 pawns

This is probably the least-known scenario, though the most common in practice.



There are some drawing positions involving a- and h-pawns, the most important one being an extension of the Vancura Defence.

1...≣e4!

The only move to draw. This move is very important: Black adopts a Vancura defensive set-up and prevents the white rook from coming out of its passive position in front of the pawn.

From now onwards, defence is quite easy, as White cannot really make further progress. On the other hand, if Black adopts a wrong defensive set-up, White wins rather comfortably. If you quickly check your database, you will see that the latter is the most frequent scenario in practice.

1...≝a1? 2.堂f4 堂h7 3.堂e5 堂g7 4.a5 堂h7 5.a6 and, as we know from **Ending 66**, White wins even without the h-pawn.

2.a5

Or 2.h5 當h7 3.當f3 單h4 4.當e3 單xh5 (Black captures the pawn and has time to set up the correct defence) 5.當d4 單g5 6.當c4 罩g4+! (only move!) 7.當b5 罩g5+ 8.當b4 罩g4+9.當c5 罩f4 – Vancura.

2...**ℤe**5!

Keeping the Vancura Position.

3.\$f3 Ih5 4.\$g3 Ic5 5.a6 Ic6! 6.\$f4

As soon as White pushes the a-pawn one step further, the black rook will be transferred to the rear of the pawn and we will reach **Ending 75**.

6...ġh77.ġe5 Ib68.ġd5 Ig69.ġc5 If610.ġb5 If5+!11.ġb6 If6+!

When the white king moves far from the a-pawn, the series of checks may end. There is no way to make progress.

ENDING 96 Second-rank defence

As we have stated, the Cochrane Defence works extremely well on the central files, and it is rather easy to achieve from a normal position.

When the starting position of the king is more delicate, or when a careless defence makes it impossible to use the main defensive method, it is sometimes still possible to adopt the so-called second-rank defence.

This is a simple and unbreakable defensive set-up, despite its somewhat worrying appearance.

The second-rank defence consists in placing both rook and king on the second rank. When a check forces the king to the first rank, an immediate rook-swap offer emerges on the board, which allows the king to come back to the 2nd rank on the following move. The king may also be forced to the first rank by means of zugzwang, but then the defending side can hold thanks to

stalemate resources.

In the following position, the black king is already locked on the edge of the board. Though no concrete threats can be seen, he may end up in the Philidor Position if he is not careful. It is time to use the second-rank defence.



1...**ģh**3!

Instead of playing neutral moves which may lead to dangerous positions, Black immediately seeks a defensive procedure. The idea is ... \[2]g2.

2.ġf4 Ig2 3.Ih7+ 🔄 g4 4.🔤 e4

This is one of the basic positions of the second-rank defence. Although Black has apparently fallen into zugzwang, he has a simple way to hold. The fact that the situation is extreme can help us find our way, but even experienced players may go astray in this ending.