# PRACTICAL CHESS PUZZLES 

 600 POSIIIONS TO IMPROVE YOUR CALCULATION AND JUDGMENT
## About the Authors

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Dachey Lin is a FIDE Master from the United States, having attained the title in 2016. He is a seven-time All American Team member and participated in three World Youth Chess Championship events, tying for ninth place in 2009. Though he is not as active as the other authors, he enjoys following and helping other chess players and watching them develop and succeed.

Edward Song is an International Master from the United States. He won the 2014 US Cadet Championship, the 2017 Supernationals (tie) and the 2017 Denker Tournament of High School Champions (tie). He is also a four-time All American Team member and played two World Youth Chess Championships, achieving top ten both times. He is looking forward to making further progress towards the grandmaster title.

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## Foreword

As a professional chess player, I have been coaching students for the past 20 years. Students and their parents often ask me to recommend a book where they can solve calculation and evaluation problems. My student Guannan Song and his friends, Dachey Lin and Edward Song, wrote this excellent book. Many beginning chess players do not know how to analyze games correctly, and this book will help you with this. In this book, you will find several commented games where the player explains his thoughts and options that he considered during the game. And carefully selected puzzles from tournaments of recent years will help you move to another level! Now I know which book to recommend to my budding students! Learn, decide, and enjoy the book.

GM Farrukh Amonatov, December 2019

## Introduction

There are a great many chess puzzle books on the market - and for good reason solving puzzles is a crucial aspect of chess improvement for any player. When writing this book, we explored other puzzle books and realized that there were many possible approaches. In the end, we decided our main aims would be practicality, self-assessment and entertainment. Our philosophy is not to teach puzzle solving but instead to teach good chess judgment and over-the-board decision-making.

This book is aimed at aspiring players from novice to National Master strength, or players rated approximately 1200-2200. That being said, players above this range may find this book helpful to sharpen and review their skills or simply for fun. Also, coaches and trainers may find this book to be a useful resource to use when teaching students. We have arranged the puzzles in each chapter in increasing difficulty. We used this design so that the reader can more accurately gauge what level they are at, self-assess what they need to work on as well as measure their improvement. For the more challenging puzzles, we recommend they be set up on a board and be tackled as in a real game. As you are working through this book, you may find some puzzles to be very challenging indeed - but that is deliberate!

The best training puzzles are those that can be solved but with some difficulty. Even if you fail to discover all the points outlined in the solutions, do not be discouraged. The work involved in attempting these puzzles, comparing your answer with the solution, and analyzing the points you missed should prove to be of excellent teaching value. However, if you find that you are consistently spending longer than 30 minutes on many puzzles and still failing to solve them, we recommend you move on to the next chapter.

We have not divided the book into exact sections, such as mate-in-three's, type of tactical motif, type of combination and so on. If you are told exactly what to look for, then the puzzle often becomes too easy and loses much of its instructional value. In a real game, no one tells you what to look for or, indeed, if there is anything at all. Therefore, we wanted these puzzles to mimic a real game where you need to figure out what to do in each position. In some puzzles, the solution is a devastating sacrifice that leads to mate. Others may require you to come up with the right strategic plan and determine the best way to execute it. For each puzzle, you will need to decide what the main objective is; whether that be find a checkmate, gain a strategic advantage, equalize, keep the position alive and so on. Also, some puzzles have more than one viable solution, as is sometimes the case in
chess. We have analyzed them in the solutions whenever they are significant. We felt it would be too artificial to pick and choose only puzzles that have one solution when, in real games, many positions arise where there is more than one good way to proceed. We have computer-checked every position in the book and strived to keep our annotations as concise, understandable and as instructive as possible.

When reading and researching other puzzle books, we found that many of them reused the same puzzles. We have determined to keep the puzzles completely original by only using recent games from the United States and Canada. Furthermore, most of the puzzles we have chosen are from games between players rated 2000-2450 (with a sprinkling of grandmaster games to illustrate key motifs). Other puzzle books use mostly grandmaster games, which can serve to alienate the reader. By mainly using games from a level likely to be closer to that of the reader, we hope they will be of more practical significance and inspire you to improve.

Our book consists of four parts:

## Model Games

This chapter features six games, played by the authors, that are rich in instructional points. In these games, we share what we were thinking during the game at crucial moments and pinpoint the exact moments where a critical decision had to be made. The purpose of these games is to teach good chess judgment and over-the-board decision making and to prepare the reader for the puzzles in the remaining chapters. We believe that illustrating these concepts with real games will allow the reader to more easily grasp them than merely explaining them with words on the page.

## Combinations

250 positions that emphasize combinational vision, calculation, and imagination.

## Evaluation

100 positions that emphasize intuition, positional understanding, and logic.

## Tests

A mix of 250 combination- and evaluation-type positions that test your understanding of all the critical skills covered.

It is crucial to clarify that many games will feature more than one key aspect, and we have not tried to separate them with these chapters. We believe that organizing the puzzles by combinations and evaluation support our goal of keeping them of practical significance while providing the right amount of guidance to help you determine which areas you need to work on. The 600 positions we have carefully selected teach comprehensive coverage of the essential skills every chess player must have. These skills include recognizing tactical motifs, mating patterns, strategic elements and positional elements. Each puzzle should serve as a lesson in and of itself.

We hope you will find these puzzles of practical significance, instructive and have as much fun solving them as we did in writing this book.

Guannan Song, Dachey Lin, and Edward Song,
December 2019
251) E.Song-D.Lin, Las Vegas 2014
White to play
254) M.Feng-J.Yu,

St. Louis 2019 Black to play

255) G.Song-A.Adriaanse,

Ottawa 2013
White to play

256) D.Naroditsky-C.Matamoros,

Las Vegas 2014
White to play

257) Z.Dukic-M.Plotkin,

Kingston 2019
Black to play

258) E.Song-S.Ramer,

Wheeling 2019
White to play

259) T.Krnan-L.McShane, Toronto 2010
Black to play

260) E.Karp-E.Song, Nashville 2017 White to play

261) M.Kleinman-V.Pechenkin,

Toronto 2010
Black to play

262) A.Yermolinsky-K.Kavutskiy,

Las Vegas 2014
White to play


264) J.Peng-G.Song,

Kitchener 2014 Black to play
266) G.Song-J.Cai,

Guelph 2015
White to play

267) S.Sevian-M.Roiz, Santa Clara 2014 Black to play

268) T.Kung-S.Thavandiran, Burlingame 2019 Black to play


249）Y．Shulman－Z．Amanov，Wheeling 2012
27 \％ 3 ！

 than enough compensation for the exchange．） 29 䍗xg6 and wins．

## 27．．．笪h8

This wins the queen but his position remains lost．

## 28 欮xh8

28 㥪xg6＋！was even more convincing，e．g．28．．．t． dominating position．

## 

250）C．Yip－T．Abrahamyan，St．Louis 2019
White＇s pieces，especially the queen on d3，are a little strangely placed and her position looks a bit shaky．One tactic and her position can easily collapse．

## 13．．．c4！ 14 紧xc4

The point of 13．．．c4．
15 （xe5 置b5
Now the queen is trapped．

Although White has three pieces for the queen，her position is very loose with many weaknesses．It will be very difficult to defend against Black＇s initiative here，and eventually Black won on move 36.

## 251）E．Song－D．Lin，Las Vegas 2014

## 23 a4？

One must be wary of tactical elements．Here Black＇s king and d4－pawn are on the same diagonal，but the bishop is currently unable to pin and pick up the pawn．The correct way
 thanks to his kingside pawns．

## 23．．．${ }^{\circ}$ b4

Though White is still better，Black still has some counterplay and eventually the game ended in a win for Black on move 58.

252）B．Li－E．Song，Columbus 2014
It is important to remember that recaptures are often automatically played in a practical game but are sometimes not a good idea．Here White may have forgotten that，as the d8－rook is eyeing White＇s queen，the d6－bishop is free to basically go anywhere．

## 19．．．思xg3！ 20 fxg3？

 fight．



253）J．Yu－C．Yip，St．Louis 2019
In endgames，one of the strongest assets to have is an outside passed pawn．Here White has an outside passer on a6，but the Black bishop guards it．Thus，White should create another passed pawn．

## 50 f5！

Black cannot prevent the h－pawn from being a passed pawn．

## 

The black bishop and king are stuck，so all White needs to do is bring the king to g6， allowing the h－pawn to promote．Black cannot do anything about it，so she resigned．

254）M．Feng－J．Yu，St．Louis 2019
Black had a lost position a move before，but．．．
37 訔xc6
．．．was a careless move by White that completely turned the tables．Black＇s only way of getting counterplay is an attack on the king．Thus，the correct solution is．．．

## 37．．．hxg3＋ $\mathbf{3 8} \mathbf{f x g} \mathbf{f 4}$ ！

Somewhat surprisingly White has no defense to Black＇s newly created attack．
39 雄 C 7
This leads to mate，but 39 g 4 f 3 does not help anyway

## 

255）G．Song－A．Adriaanse，Ottawa 2013
66 旬d2？？
A horrific，careless blunder．Instead 66 tatb3 simply wins，of course．For example，


## 66．．．f1響 $1 / 2-1 / 2$

256）D．Naroditsky－C．Matamoros，Las Vegas 2014
The king and pawn endgame is easily winning for White．

Black cannot stop White＇s king from entering the queenside and keep tabs on the g5 break．He has no time to get in f6．

## 257）Z．Dukic－M．Plotkin，Kingston 2019

Black was completely lost for much of this game，but one important thing to do in a lost position is to look for counterplay．
30．．．断e2！
Invading the White camp with dangerous threats．From here on，although White is still better，Zach was completely flustered，and the tables were turned within the next few moves．
31 皿c4？




31 分xf8 is the best move but after 31．．．总xf8 the e5－pawn will fall and Black will still have counterplay，despite being clearly worse．

Now Black has even equalized．

Cutting the queen from defending the rook on c1 while at the same time attacking 92. White is now lost．

## 

258）E．Song－S．Ramer，Wheeling 2019
We should always be mindful of our opponent＇s threats．At the same time some threats can be ignored．It is our job to evaluate what threats we can ignore and see if we should pursue our own plans．
48 d7！卛xf2＋49 韩h1
Black has no attack and not even checks，while the d－pawn cannot be prevented from promoting，so Black resigned．

## 259）T．Krnan－L．McShane，Toronto 2010

Black＇s pieces are all in their optimal positions．The rooks are stacked on the c－file and the queen is active，so it is the best time for a pawn break in the center．

## 30．．．d5！ 31 囬a1 dxc4 32 党xa4 cxd3

Black easily converted the pawn－up position．



260）E．Karp－E．Song，Nashville 2017
White is slightly worse because of his weaker king，but the position is not easy to win for Black if White just stays solid．

## 32 彩xa7？

Even if this move does not outright lose（which it does），such a move should never be considered．It is intuitively never a good idea to allow Black to play 32．．．堌e2＋with serious threats to the white king．This is even the case when it wins a pawn and especially when White was in time trouble．

Thus，the point of this puzzle is to recognize that sometimes outright calculation isn＇t the best way to judge a position，and you need a certain amount of intuition to understand the dangers of risky moves as well． 32 㟴c2 would have been playable．

## 

Missing 33．．．郻h5 which wins the game immediately．

## 34 紧a8＋？

 draw the endgame．

## 34．．．亶g7 35 g4

 c8．

## 35．．．置b2？

Allowing White to escape．

## 36 響 d 5 ？



White resigned before Black could play 39．．．筫xf3＋．
261）M．Kleinman－V．Pechenkin，Toronto 2010
32．．．a5！
Breaking up White＇s queenside pawn structure．

34 酋 xg2 皆d3＋recovers the piece．

## 

Black has too many extra pawns and eventually converted the opposite－colored bishop and rook ending on move 63.

## 262）A．Yermolinsky－K．Kavutskiy，Las Vegas 2014

23 d4！ 24 f4
This has ideas of breaking with $\mathrm{b} 4, \mathrm{f} 5$ ，and bringing a piece to e6．White has a dominating position and won shortly．

263）S．Lipnowski－G．Melamedoff，Winnipeg 2010
White is threatening to capture the knight and if moves，White plans c3，forking the two Black rooks．

## 23．．．党dd2！

This move defends．

## 

Suddenly Black is much better．After some inaccuracies，Black lost his newfound advantage and drew the game on move 59.

264）J．Peng－G．Song，Kitchener 2014

## 24．．．弾f6！

With the simple but deadly threat of $25 \ldots$ ．．．㟶 95 ．
25 菣e4
䍖h3 wins the exchange and keeps a strong attack．

265）B．Avrukh－J．Cao，Arlington 2015
19 a4！
Bringing the knight to the outpost on c5．
19．．． $\mathrm{V}_{\mathrm{f}}$
Sacrificing a pawn with 19．．．c5 to trade off his rotten bishop was a better try．After 20

20 c5
Positionally winning．White＇s pieces are better，he has many targets to go after and Black has no counterplay．



266）G．Song－J．Cai，Guelph 2015
23 bxc5！
Sacrificing an exchange to take the initiative and create two dangerous passed pawns．


## 

Black has no counterplay，and White plans to steamroll the passed pawns down the board．White eventually won on move 37.

267）S．Sevian－M．Roiz，Santa Clara 2014

## 35．．．g5＋！

A key zwischenzug before taking the pawn on a2．This prevents the passed h－pawn from becoming a problem and forces White＇s king back．

35．．．总xa2？would give White a far－advanced outside protected passed pawn on the sixth rank and throw away most of Black＇s advantage，e．g． 36 h6 0 c5 37 总d4 曾h2 38 g 5 favors Black．

Black converted this position and won on move 62.

268）T．Kung－S．Thavandiran，Burlingame 2019
White＇s d－pawn is about to promote and Black can＇t prevent this．But just because White will have two queens doesn＇t mean he will win！In fact，his king will be defenseless．
29．．．置xf3！
Ignoring White＇s d－pawn．

White＇s queens are so far from the real battle that they are unable to do anything．This demonstrates that piece quality is more important than how much the piece is worth in material terms．

## 

269）A．Bayar－E．Song，Wheeling 2018
Here Black had just a few seconds to reach move 40 ．He is already up a pawn so it＇s a good idea to consolidate．

## 38．．．龍xb2？

There was no need to be greedy and allow White chances．Black should start by disturbing the White knight with 38．．．h5！．After 39 酋xf8＋


## 39 h 4 ！ 47 ？？

This is the real blunder．But by now it isn＇t so easy for Black to come up with a move． The computer gives $39 \ldots$ ．．．${ }^{\circ} 4$ as the best way to sacrifice the knight but this is a hard move


## 40 欮 e 7

Now White gets an attack，wins the knight，and went on to win．

