METU PRESS

Foreign Rights Guide – 2024

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Beyond publishing, METU Press is committed to supporting education through its social responsibility initiatives. The revenues from our publications help fund scholarships for METU students, making a tangible contribution to the future of education.

In this guide, we are excited to present a carefully curated selection of our most prestigious titles. We invite you to explore these publications and discover how they can resonate with readers in your market.

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Technology Training Set For Children

CODING FOR CHILDREN

SELÇUK ÖZDEMİR

Carrying out activities on software development and the use of technology in the field of education for nearly 20 years, Prof. Selçuk Özdemir has been working as a software expert and team leader in many commercial and academic projects.

In this book, children will have a better understanding of the real purpose and also the hardware and software structure of the computers they use. They will learn concepts such as data, variables, loops, conditions, branching, and indexes, which are common components of all programming languages. They will notice that software development is a problem-solving process consisting of steps such as analysis, design, development, and testing.

"When I started to read Coding for Children, I gained a valuable experience that "The mind of all technologies is limited to the human mind using it" as someone who has been working in the field of information technology for many years. Yes, using technology effectively or producing it to be used is a phenomenon depending directly on humans. If we can introduce production tools to our children at a very early age, we could have information technologies that we can present to other countries as an example. From this point of view, Coding for Children deserves to be a reference book of productive minds who will make significant changes in the field of information technologies in the future."

Prof. Dr. M. Yaşar Özden

ISBN 978-605-9856-40-9 **CHILDREN'S PICTURE BOOKS (9 +)**
SIZE 20 x 24 **THIRD EDITION**
PAGE 104 **GLOSSY PAPER**

SELÇUK ÖZDEMİR

He received his BA in the department of Foreign Languages (1996), MS in Computer and Instructional Technologies (2001) from the Middle East Technical University, and Ph.D. in Educational Technologies (2005) from Gazi University where he has been working as a professor. Prof. Özdemir who has focused on educational software design and development processes in the field of educational technologies has been actively involved in the development of various software by using different technologies both in the PC environment and the web environment. In recent years, he has been developing products and projects for the "production-oriented" use of information technologies by new generations. He is deemed worthy of many awards such as the TÜBİTAK (Scientific and Technological Research Council of Turkey) International Publication Incentive Award, and the Gazi University International Publication Incentive Award.

Technology Training Set For Children

WEB DESIGN FOR CHILDREN

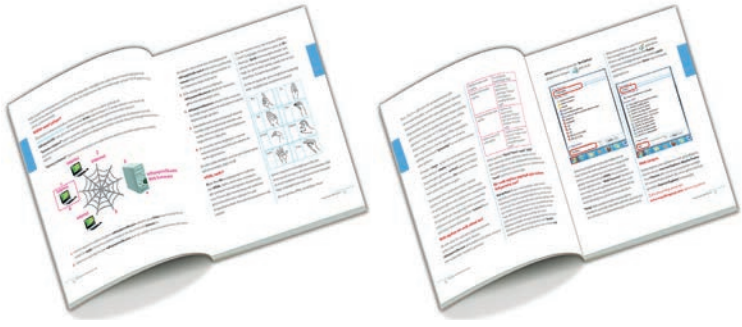
SELÇUK ÖZDEMİR

The main aim of this book is to introduce to children aged 9 and over the basic elements of web browsers. By the end of the book, the children will learn the basic HTML signs which allow placing the texts, visuals, graphics, sounds, and videos on the web pages.

In this book, instead of dragging-and-dropping website development editors, HTML signs are explained and applied using Notepad which is the basic software program that may be found on every computer.

"Our century is known as the information age. The information age requires individuals who are productive and able to produce components of information systems by using them effectively. The culture of producing information systems needs to be developed from an early age not only because there is a huge amount of knowledge and skill that individuals need to develop in this field, but also because producing these systems makes it easier to understand them. In addition, the fact that people gain information regarding the elements and the relationships between the elements of the systems makes it easier to control them. Controlling systems give people more freedom and flexibility to use them. In line with this goal, Prof. Özdemir wants to prove once again to both adults and children that anyone can do basic coding. This book encourages children not only to confine themselves to the pages they visit on the Internet but also to produce network pages themselves."

Prof. Yavuz Akpınar
Head of Boğaziçi University Faculty of Education and Educational Technology Department



ISBN 978-605-5164-13-3
SIZE 20 x 24
PAGE 132
CHILDREN'S PICTURE BOOKS (9 +)
FOURTH EDITION
GLOSSY PAPER

Technology Training Set For Children

3D DESIGN FOR CHILDREN

SELÇUK ÖZDEMİR
AHMET ÇELİK

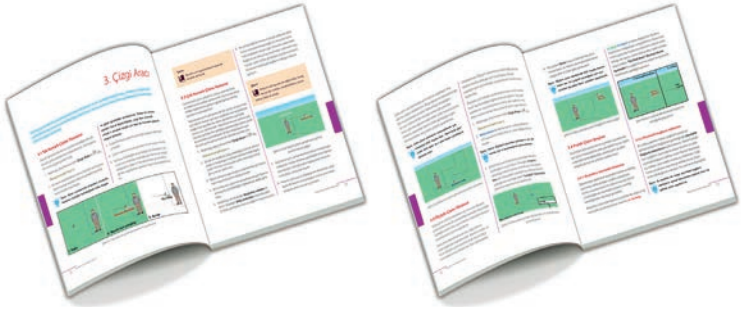
3D Design for Children is the third book of the series for children aged 9-16. Thanks to this book, children may get acquainted with 3D which has become popular with the progress in Virtual Reality, Augmented Reality, and Metaverse technologies.

Many people think at first that 3D modeling is very difficult because such programs usually consist of many complex commands and functions. This book manages to simplify this chaos as much as possible. Once you read it, you'll realize that 3D modeling is very easy and fun. To ensure this simplicity, the least difficult technology is chosen: Sketchup. If they read the whole book prepared by using the free version of Sketchup, children can learn the basics of 3D design, and then by improving themselves in this field, they can be a professional.

* * *

"The biggest and most important investment is the one made for our children. They are our future! We need environments where our children can express and improve themselves. I place importance and support on such works that will contribute to the development of our children."

Mevlüt Dinç



ISBN 978-605-5164-75-1 **CHILDREN'S PICTURE BOOKS (9 +)**
SIZE 20 x 24 **THIRD EDITION**
PAGE 112 **GLOSSY PAPER**

AHMET ÇELİK

He received his Ph.D. from the Faculty of Education and was employed at Gazi University. Dr. Çelik works at the Distance Education Application & Research Center as an e-learning expert and teaches information technologies as an instructor. He has been an academic advisor for an online STEM Education Content Development Project of an educational technology company in Turkey for more than 4 years. Dr. Çelik continues his academic studies on the use of 3D technologies in education, maker-based learning, STEM for PreK-12, and e-learning.

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Technology Training Set For Children

SMART DEVICE DESIGN FOR CHILDREN

FATMA KESKİNKILIÇ

SELÇUK ÖZDEMİR

We are all surrounded by devices autonomously performing the tasks -which were done by human beings in the past- by following the steps of collecting information, processing it, and deciding and applying based on the information it processes. Therefore, this book aims to explain children the hardware, software, and algorithms that are the basis of the new technology to be called the world of Industry 4.0 or smart devices.

Thanks to this book, children aged 9 or over will learn how to write code by interacting with the physical world and using Arduino and Visual Block Programming. After finishing this book, children will be able to design various electronic circuits having the steps of input-process-output by assembling an Arduino microcontroller with push buttons, DC motors, temperature sensors, light sensors, LEDs, buzzers, potentiometers, and resistors on a breadboard.

* * *

"The way toward progress in this age is to add intelligence and design to everything we do. The era of economic growth by building double highways, national cars, and giant airports is over. A brand-new race begins. Prof. Selçuk Özdemir prepares our children for this race with his actions and writings."

Selçuk R. Şirin, Ph.D.
New York University Professor

FATMA KESKİNKILIÇ

She received her BS in Computer and Instructional Technologies and completed her MS and Ph.D. in Educational Technology from Gazi University. Now, she has been working at Ahi Evran University in the department of Computer Technology since 2017.

ISBN 978-605-9856-97-3 **CHILDREN'S PICTURE BOOKS (9 +)**

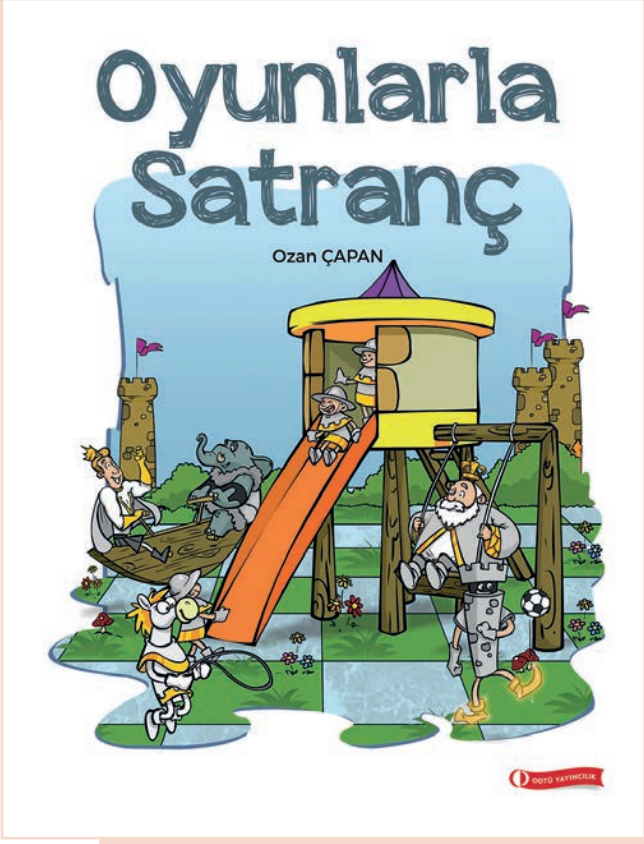
SIZE 20 x 24 **FIRST EDITION**

PAGE 104 **GLOSSY PAPER**

Chess Books For Children

CHESS WITH GAMES

OZAN ÇAPAN



The main aim of this book is to teach and endear chess to preschoolers and elementary education students. There are many entertaining and instructive games in the book. With games such as "square puzzle game, bumper cars game, football chess, elephants-mice game, thief-police game, wolf and lamb game, horse racing game, etc.", the chess rules get easy to keep in mind. The topics are enriched with detailed examples, supported by exercises.

The book is planned to be used in classrooms in schools and chess clubs, and the exercises are carefully selected according to the level of the students. Thanks to this book which is for children aged 5-9, children will learn the value of competition, and acquire the ability to self-criticize, to be self-confident, to overcome stress, to be respectful and thoughtful to other people, etc.

OZAN ÇAPAN

He started his chess career at the age of 6. He has been working in several colleges as a chess trainer and coach and has 16 books about chess for children. His book *Learning Chess Using Colors* is the first of its kind not only in Turkey but also in the world. He has invented many games about chess such as chess race and also a new learning method named MOSEM (Chess Training with Tales and Games Method). In 2007, he founded Karşıyaka Chess Center in which he is training players for the national team. He was also the Head of the Chess Federation in Turkey from 2017 to 2020.

ISBN 978-605-9856-65-2 **CHILDREN'S PICTURE BOOKS (5-9)**
SIZE 21 x 29,7 **FOURTH EDITION**
PAGE 160 **HIGH-GRADE PAPER PULP**

Chess Books For Children

CHESS WITH TALES

OZAN ÇAPAN

Since its publication in 2002, nearly 100.000 copies have been printed and the book has received many positive reviews and appreciation in the printed and visual media.

It has been a basic reference book through which thousands of children learn the rules of the chess game as if they are reading a storybook, and which educators get inspired in their teaching style after using the method of "teaching with tales" in the book.

In this book, children will learn the rules of chess thanks to the tales about the following: the land of ice and forests, the intriguing story of how the chess game originated from throwing garbage on the ground, why chess pieces wear iron armor, how rooks came to possess magical shoes, why some bishops can only move on ice, why kings are depicted as big-bellied, how the queen became just a helper, and the origins of the knight's unique L-shaped movement.

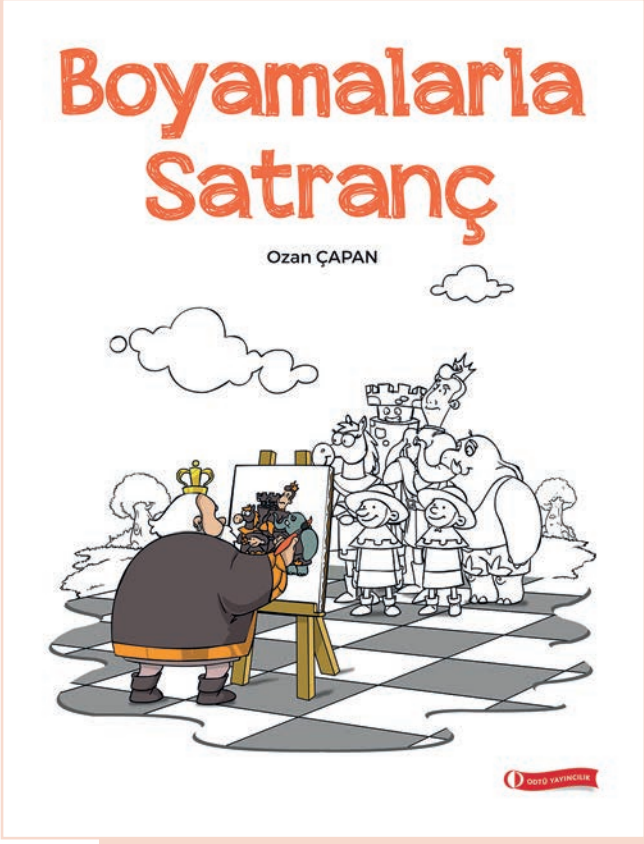
Chess with Tales is a bedside book thanks to which children aged 5-8 may learn chess easily.

ISBN 978-605-9856-69-0 **CHILDREN'S PICTURE BOOKS (5-8)**
SIZE 21 x 29,7 **FOURTH EDITION**
PAGE 96 **HIGH-GRADE PAPER PULP**

Chess Books For Children

LEARNING CHESS BY USING COLORS

OZAN ÇAPAN



Learning Chess By Using Colors is the first book of the chess training set. The book aims to teach the moves of pieces by coloring pretty characters in *Chess with Games* and *Chess with Tales*. With these activities, students will have an idea of the chess game, its pieces, and its moves. In addition, the exercises in the book aim to help the student develop his/her motor muscle skills while teaching the rules of the chess game.

The examples of the titles in the book are the definition of the square shape, chessboard and its features, the introduction of horizontal, vertical, and diagonal directions, line studies related to them, the peculiarities of chess pieces, painting of chess pieces, the introduction of colors, laying out the chess pieces.

This book is published in 2002 for the first time, and it is the first book in its field.

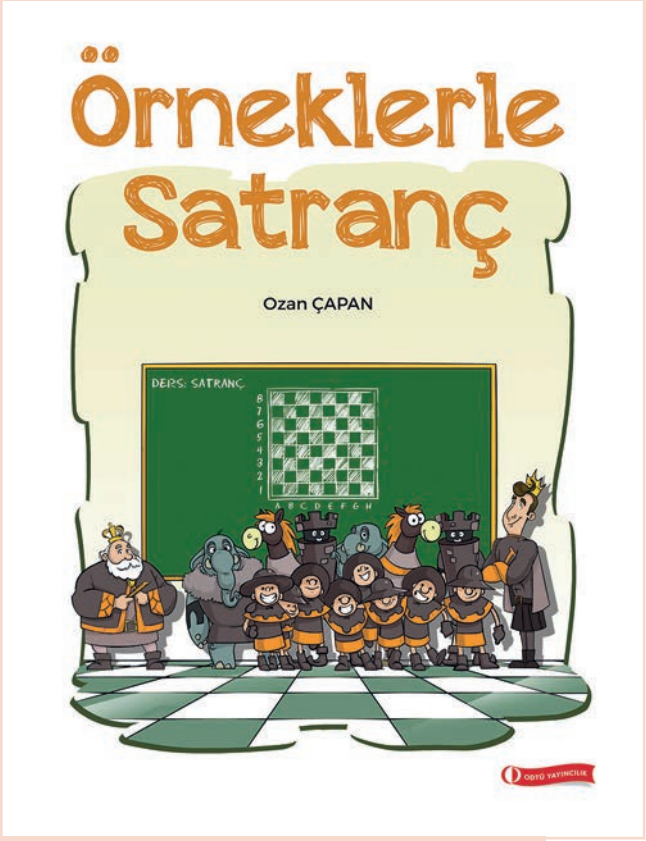
Learning Chess by Using Colors is an educational book through which preschoolers will learn chess while having fun.

ISBN 978-605-9856-68-3 **CHILDREN'S PICTURE BOOKS (PRE-SCHOOL)**
SIZE 21 x 29,7 **THIRD EDITION**
PAGE 48 **HIGH-GRADE PAPER PULP**

Chess Books For Children

CHESS WITH EXAMPLES

OZAN ÇAPAN



Chess with Examples, which is the extended edition of *The Basics of Chess*, is the fourth book of the MOSEM (Chess Training with Tales and Games Method) training set.

In this book, the principles of the chess openings, basic checkmates, tactical themes, and issues related to the endgame are examined and reinforced through examples.

The main aim of this book is to ensure that the students learn the basics of chess while having fun. Ultimate attention is shown to explain the subject in plain language by avoiding complex and difficult positions. Therefore, the book also contains a lot of stories related to each subject. It is important to teach the students how they can solve the exercises regarding chess at their level. That is why, this book, which is for children aged 7-10, includes 30 lessons and 284 exercises.

ISBN 978-605-9856-77-5 **CHILDREN'S PICTURE BOOKS (7-10)**

SIZE 21 x 29,7 **FOURTH EDITION**

PAGE 152 **HIGH-GRADE PAPER PULP**

Chess Books For Children

A JOURNEY TO THE CHESSLAND

OZAN ÇAPAN

Selin's family registers her to a scout camp as a report card gift. Even though Selin does not like the gift, she decides to go anyway. There, an adventure awaits her thanks to which she will learn some universal values as listed below:

The importance of thinking carefully and elaborately.

Cunning is not a good thing.

It is wrong to look down upon someone or an opponent.

She learns those values through a chess game with a turtle, fox, giraffe, and ant. She enters through the door of the Chessland to find the key to happiness. Will she find it at the end? Let's learn what happiness is together with our main character, Selin.

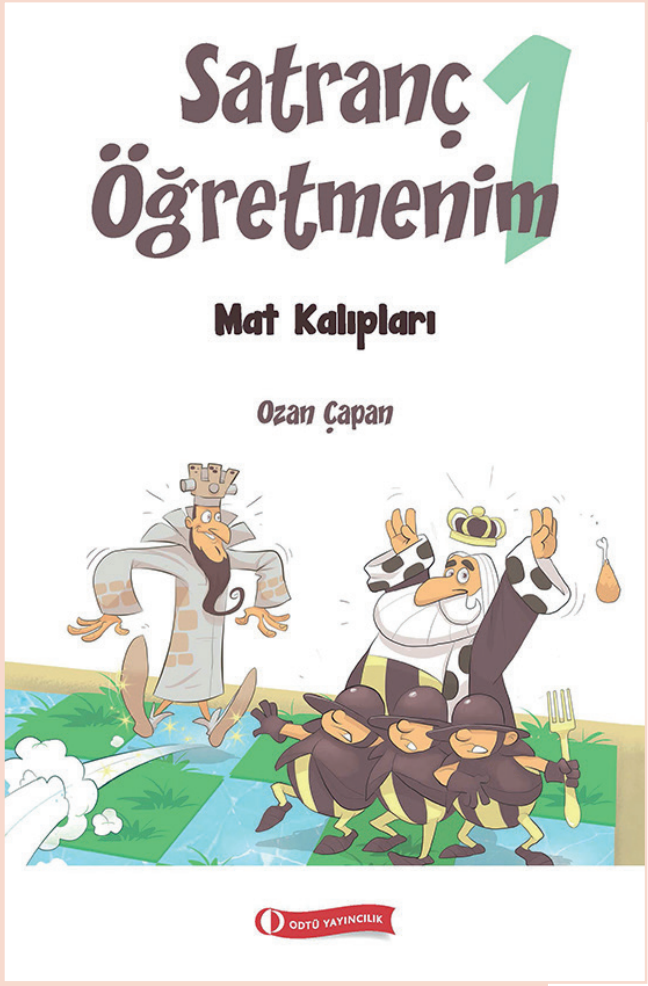
In this book, the questions related to chess are given within the framework of a story. Our main character, Selin faces some obstacles and overcomes them thanks to her skills at chess. Will Selin become a happy child at the end of the adventure? How is it possible? Let's learn together.

ISBN 978-605-9856-85-0 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 21 x 29,7 **FOURTH EDITION**
PAGE 32 **HIGH-GRADE PAPER PULP**

Chess Books For Children

MY CHESS TRAINER 1 - CHECKMATE PATTERNS

OZAN ÇAPAN



Would you like to know 33 different checkmate patterns among which are Ladder Mate, Back-Rank Mate, Hook Mate, Opera Mate, Epaulette Mate, and Anastasia's Mate?

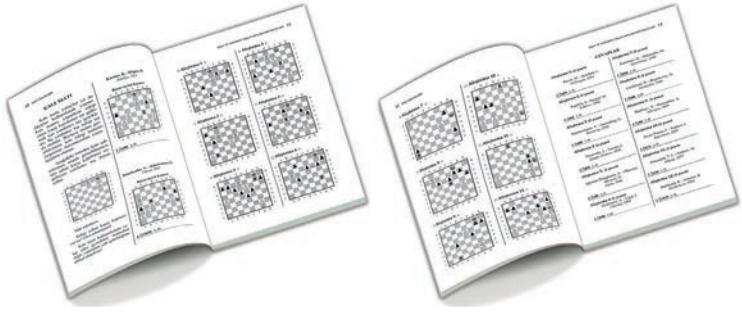
In the first book of *My Chess Trainer* series, *Checkmate Patterns*, some basic and well-known examples are described to the reader.

The purpose of the book is not to memorize the names of the patterns of checkmates, but to teach how the acquired checkmate pattern is formed and applied. At the end of each title, there are 12 exercises from easy to difficult levels.

You can compare the results of the exercises you solved on the scoreboard and find out your level.

There are 396 checkmate exercises in the book. In the last part of the book, there are 48 questions in 1 move and 52 questions in 2 moves.

Thanks to this book, you will be able to learn different checkmate patterns and use them in your games.



ISBN 978-605-9856-19-5 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 15 x 23 **SECOND EDITION**
PAGE 180 **HIGH-GRADE PAPER PULP**

Chess Books For Children

MY CHESS TRAINER 2 - TACTICS AND COMBINATIONS

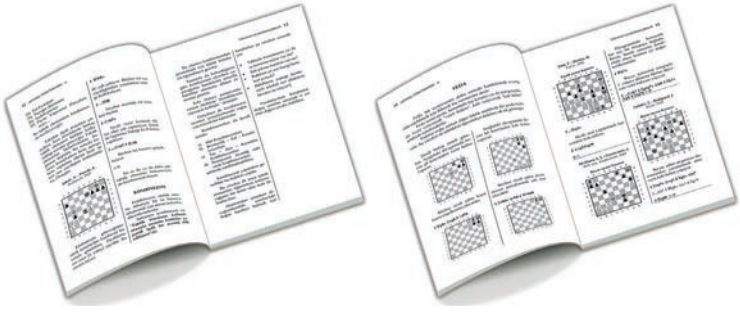
OZAN ÇAPAN

Would you like to know 27 different tactical themes among which are stalemate, skewer, fork, deflection, x-ray attack, zwischenzug, windmill, and zugzwang?

In the second book of *My Chess Trainer* series, *Tactics and Combinations*, there are many examples of tactics (from easy to difficult levels) that may help you win the game. At the end of each subject, there are 4 questions you should answer. You can compare the results of the exercises you solved on the scoreboard and find out your level.

The book includes 108 exercises on tactical themes. In the last part of the book, there are a total of 96 exercises consisting of 8 tests.

Thanks to this book, you will be able to learn various tactical themes and ideas and use them in your games.



ISBN 978-605-9856-20-1 **CHILDREN'S PICTURE BOOKS (6 +)**

SIZE 15 x 23 **FIRST EDITION**

PAGE 210x **HIGH-GRADE PAPER PULP**

Chess Books For Children

EXCHANGE OF PIECES IN CHESS

OZAN ÇAPAN

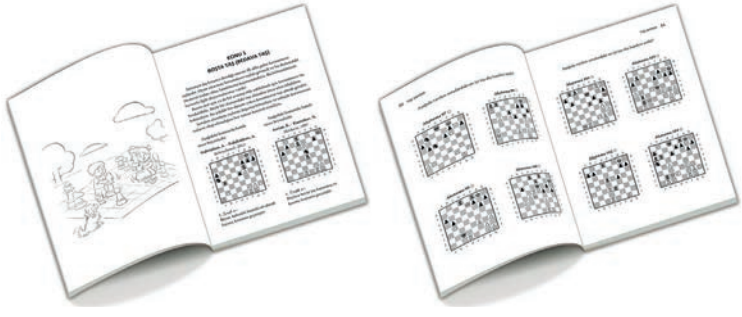
This book aims to teach how to think in some positions, to correct mistakes and deficiencies, to contribute to the chess literature in this regard, and to study every aspect of "correct piece exchange".

In this book where the ability to make calculations is examined independently from tactical themes, the method of calculation through capturing pieces is explained using examples.

The topics covered in the book within seven chapters are listed as follows:

- Finding the suitable pawn
- Capturing pawns by realizing their values
- Quality gain
- Naming the pieces that attack and defend
- Being able to make the move for capturing pieces by paying attention to the threat
- Being able to calculate piece-capturing with pace.
- Being able to capture with the right piece.

At the end of each of these subjects, there are a total of 300 exercises that improve the calculation.



ISBN 978-605-9856-73-7 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 15,5 x 21 **FIRST EDITION**
PAGE 144 **GLOSSY PAPER**

Chess Books For Children

CHESS AT SCHOOL 1st LEVEL -BEGINNING

OZAN ÇAPAN

Chess at School is a basic chess training program and a curriculum prepared to be used in chess lessons in schools, chess centers, and clubs.

Since 2008, it has been applied in many educational institutions, namely at Karşıyaka Chess Center, and successful results have been obtained.

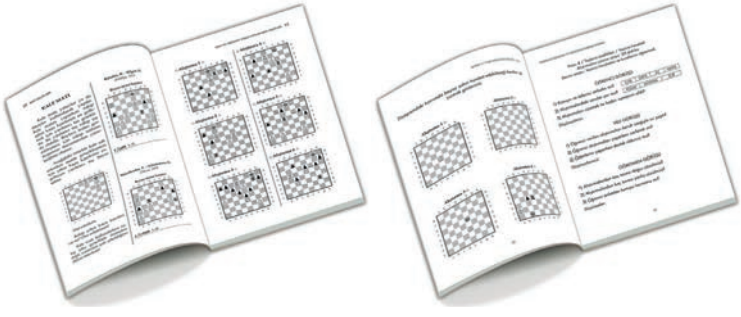
Chess at School 1st Level - Beginning is the first book in the *Chess at School* training set.

The book contains 34 topics, and the subjects are constructed in a specific order of training.

The content includes exercises on topics to be learned at the initial level such as the movements of pieces, check, checkmate, stalemate, basic rules, attack from a safe square, types of defenses, and basic checkmate ideas.

At the end of each topic, there is an "Evaluation and Observation Form" that consists of questions for students, parents, and teachers. This form aims to measure whether the students understand the subject.

Thanks to this book, teachers and students will be able to be a part of a regular and realistic training program.



ISBN 978-605-9856-53-9 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 15 x 23 **THIRD EDITION**
PAGE 168 **GLOSSY PAPER**

Chess Books For Children

CHESS AT SCHOOL 2nd LEVEL - DEVELOPMENT

OZAN ÇAPAN

Chess at School is a basic chess training program and a curriculum prepared to be used in chess lessons in schools, chess centers, and clubs.

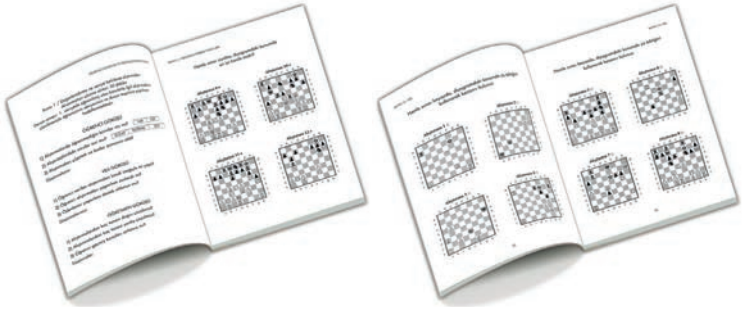
Since 2008, it has been applied in many educational institutions, namely at Karşıyaka Chess Center, and successful results have been obtained.

Chess at School 2nd Level - Development is the second book of the *Chess at School* training set.

The book contains 35 topics, and the subjects are constructed in a specific order of training.
It includes exercises on topics to be learned at this level such as stalemate, skewer, fork, checkmate opening, double-check, deflection, x-ray attack, certain checkmate patterns, and sample games.

At the end of each topic, there is an "Evaluation and Observation Form" that consists of questions for students, parents, and teachers. This form aims to measure whether the students understand the subject.

Thanks to this book, teachers and students will be able to be a part of a regular and realistic training program.



ISBN 978-605-9856-54-6 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 15 x 23 **THIRD EDITION**
PAGE 168 **GLOSSY PAPER**

Chess Books For Children

CHESS AT SCHOOL 3rd LEVEL-PRACTICE

OZAN ÇAPAN

Chess at School is a basic chess training program and a curriculum prepared to be used in chess lessons in schools, chess centers, and clubs.

Since 2008, it has been applied in many educational institutions, namely at Karşıyaka Chess Center, and successful results have been obtained.

Chess at School 3rd Level – Practice is the third book of the *Chess at School* training set.
In the book, there are 30 tests which include exercises from practical games related to tactics in the chess game to questions for improving the technique of schematic thinking.

The main purpose of the book is to contribute to the development of the student's tactical vision and ability.

At the end of each topic, there is an "Evaluation and Observation Form" that consists of questions for students, parents, and teachers. This form aims to measure whether the students understand the subject.

Thanks to this book, teachers and students will be able to be a part of a regular and realistic training program.

ISBN 978-605-9856-55-3 CHILDREN'S PICTURE BOOKS (6 +)
SIZE 15 x 23 THIRD EDITION
PAGE 168 GLOSSY PAPER

Chess Books For Children

CHESS AT SCHOOL 4th LEVEL - THE CHANGE

OZAN ÇAPAN

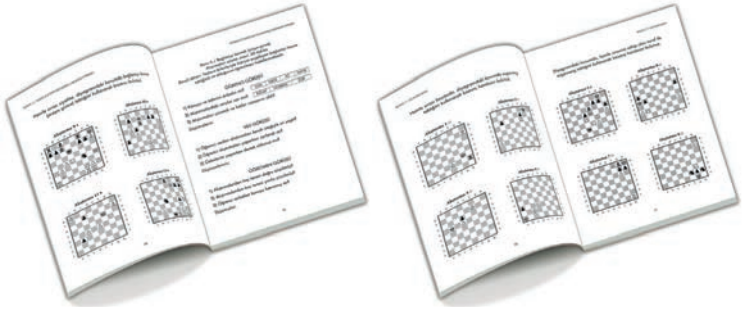
Chess at School is a basic chess training program and a curriculum prepared to be used in chess lessons in schools, chess centers, and clubs.

Since 2008, it has been applied in many educational institutions, namely at Karşıyaka Chess Center, and successful results have been obtained.

Chess at School 4th Level - The Change is the fourth book of the *Chess at School* training set.
The book contains 35 topics, and the subjects are constructed in a specific order of training.
It contains exercises on topics to be learned at this level such as tactics, basic game breaks, and openings.

At the end of each topic, there is an "Evaluation and Observation Form" that covers questions for students, parents, and teachers. This form aims to measure whether the students understand the subject or not.

Thanks to this book, teachers and students will be able to be a part of a regular and realistic training program.



ISBN 978-605-9856-56-0 **CHILDREN'S PICTURE BOOKS (6 +)**
SIZE 15 x 23 **THIRD EDITION**
PAGE 184 **GLOSSY PAPER**

Chess Books For Children

CHESS AT SCHOOL 5th LEVEL- MASTER

OZAN ÇAPAN

Chess at School training set is a basic chess training program and a curriculum prepared to be used in chess lessons in schools, chess centers, and clubs.

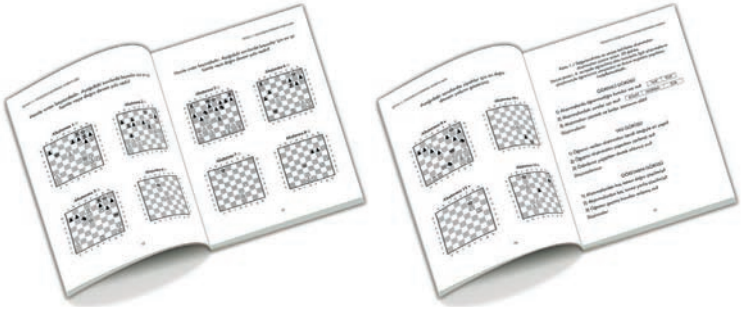
Since 2008, it has been applied in many educational institutions, namely at Karşıyaka Chess Center, and successful results have been obtained.

Chess at School 5th Level – Master is the fifth book of the *Chess at School* training set.
The book contains 35 topics, and the subjects are constructed in a specific order of training.

The content of the book covers exercises on topics to be learned at this level such as middlegame, pawn structures, basic sacrifices that take advantage of the weaknesses of the pawn structure, some openings, and endgame.

At the end of each topic, there is an "Evaluation and Observation Form" that consists of questions for students, parents, and teachers. This form aims to measure whether the students understand the subject or not.

Thanks to this book, teachers and students will be able to be a part of a regular and realistic training program.



ISBN 978-605-9856-57-7 **CHILDREN'S PICTURE BOOKS (6 +)**

SIZE 15 x 23 **THIRD EDITION**

PAGE 180 **GLOSSY PAPER**

Matematik Gezegeni

1-2-3-4

PROF. MEHMET ÇAĞLAR
ÜLKÜ DOĞANCIOĞLU

ISBN 978-605-7744-62-3 CHILDREN'S PICTURE BOOKS
SIZE 19,5 x 27,5 JULY 2024
PAGE 352 GLOSSY PAPER

ISBN 978-605-7744-61-6 CHILDREN'S PICTURE BOOKS
SIZE 19,5 x 27,5 JULY 2024
PAGE 344 GLOSSY PAPER

"Matematik Gezegeni" books are acclaimed series aimed at providing primary school students with a strong foundation in mathematics. Designed according to the guidelines of the Turkish Ministry of National Education, the book adopts a hands-on learning approach, with a focus on practical examples and interactive activities that bring abstract mathematical concepts to life. Through engaging visuals, puzzles, and problem-solving exercises, *Matematik Gezegeni* helps young learners develop critical thinking skills and fosters a positive attitude towards mathematics. The book also integrates interdisciplinary learning, encouraging students to apply their mathematical knowledge in various real-world contexts.

PROF. MEHMET ÇAĞLAR

Prof. Mehmet Çağlar is a respected professor in the field of mathematics education with decades of experience in curriculum development and pedagogical research. He has authored numerous educational books and has played a leading role in shaping modern approaches to mathematics education in Turkey.

ÜLKÜ DOĞANCIOĞLU

Ülkü Doğancıoğlu is an experienced educator with extensive expertise in early childhood and primary education. She has worked closely with schools across Turkey to develop innovative teaching materials that cater to the diverse needs of young learners. Her contributions to Matematik Gezegeni reflect her deep commitment to improving mathematics education for children.

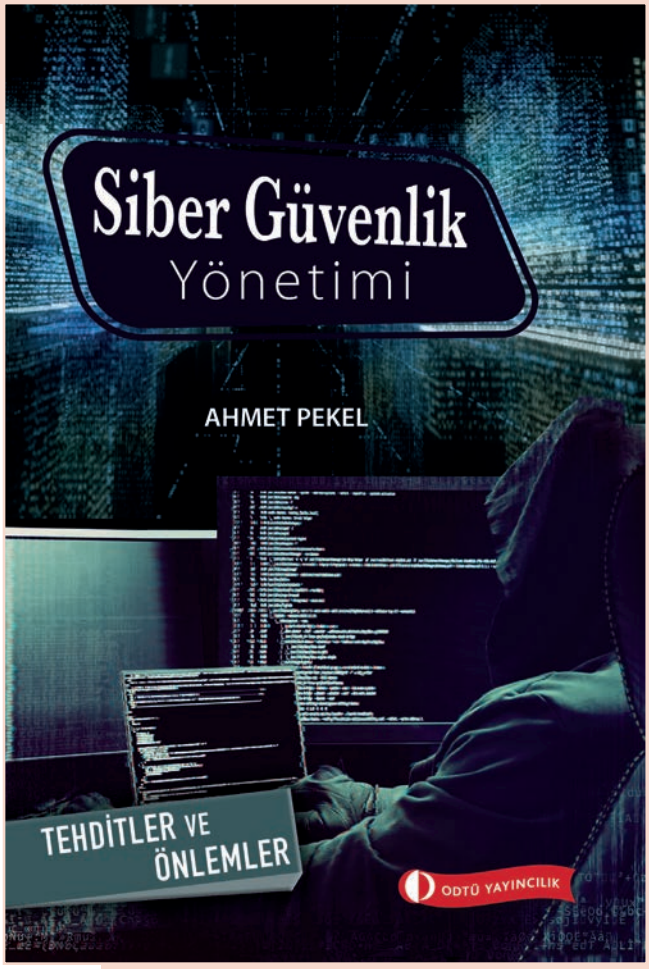
ISBN 978-605-7744-60-9 CHILDREN'S PICTURE BOOKS
SIZE 19,5 x 27,5 JULY 2024
PAGE 376 GLOSSY PAPER

ISBN 978-605-7744-59-3 CHILDREN'S PICTURE BOOKS
SIZE 19,5 x 27,5 JULY 2024
PAGE 392 GLOSSY PAPER

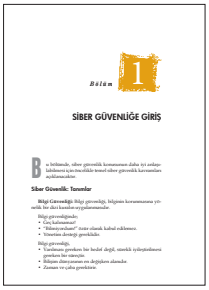
Cyber Security Management

THREATS AND PRECAUTIONS

AHMET PEKEL



In an era of rapid technological advancement, cybersecurity has become one of the most critical aspects of both personal and organizational safety. *Cyber Security Management: Threats and Precautions* delves into the complexities of cybersecurity, providing readers with a comprehensive understanding of cyber threats and the preventative measures necessary to combat them. The book covers a wide range of topics including definitions of cybersecurity, types of cyber attacks, the importance of cybersecurity regulations, and strategic management of security processes. It also discusses global cybersecurity incidents and the lessons learned from them, offering practical advice on how individuals and institutions can protect themselves in the evolving digital landscape. This book is an essential guide for professionals, students, and anyone interested in securing digital environments.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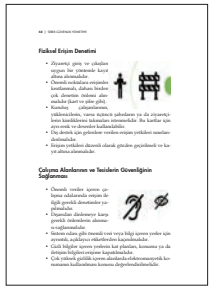
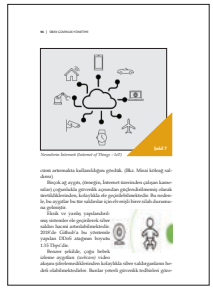

Fiziksel Erişim Denetimi

Çalışma Alanlarının ve Teçhizatın Güvenliğinin Sağlanması



ISBN 978-605-7744-64-7 ACADEMIC
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PAGE 192 HIGH-GRADE PAPER

AHMET PEKEL

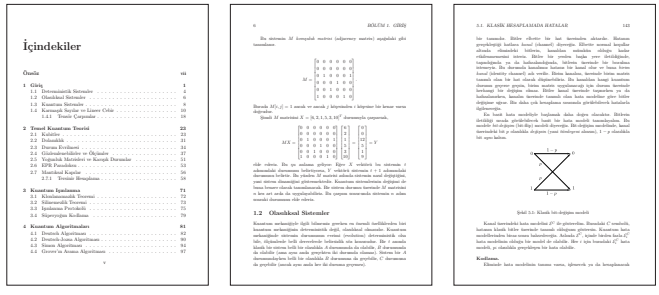
Ahmet Pekel graduated from Middle East Technical University (METU) with a degree in Computer Engineering. He started his career as a software engineer at Aselsan and later worked in various roles, including Systems Analyst and IT Security Manager at the Central Bank of Turkey. Pekel has played a key role in establishing the Bank's Information Security and Quality Auditing Department. Over his 30-year career, he has held multiple leadership positions in IT and cybersecurity organizations such as the Turkish Informatics Association (TBD). He works as a cybersecurity management consultant and contributes to several national and international cybersecurity initiatives. His work in translating technical terms and promoting precise Turkish terminology in IT is widely recognized.

9 786057 744647

QUANTUM COMPUTING THEORY

AHMET ÇEVİK

Developed in the early 20th century, quantum mechanics undermined many principles of classical mechanics and brought new insights at the subatomic level. A few decades after the revolutionary findings in the field, a new computational paradigm based on the laws of quantum physics emerged and is known today as *quantum computing*. In *Quantum Computing Theory*, we provide the mathematical framework behind quantum computation and quantum computers. The book is designed as a reference or textbook to serve upper-level undergraduate or graduate students in computer science or mathematics departments. Students of physics and researchers in the IT industry may also benefit from this book. The book contains six chapters in total. The first chapter introduces the history of quantum computing and provides the mathematical background such as matrices and linear algebra. The second chapter gives quantum mechanical principles that are necessary for the book and introduces main concepts like qubits, observables, entanglement, and quantum gates. The third chapter is devoted to quantum teleportation. The fourth chapter consists of some known quantum algorithms. The fifth chapter provides quantum error correction models, and the sixth chapter is reserved for quantum models of computation and complexity.


İçindekiler

AHMET ÇEVİK

He is an associate professor of logic and foundations of mathematics. He earned his Ph.D. in pure mathematics from the University of Leeds in 2014. He was a postdoctoral researcher in the Department of Mathematics at the University of California Berkeley from 2015-2016. He has lectured in the Philosophy, Mathematics, and Computer Engineering Department at the Middle East Technical University, Ankara. He visited the Department of Mathematics at the University of California in 2019. He has been affiliated with the Gendarmerie and Coast Guard Academy in Ankara since 2018. He is the author of 3 books and many research papers.

ISBN 978-605-7744-41-8 ACADEMIC
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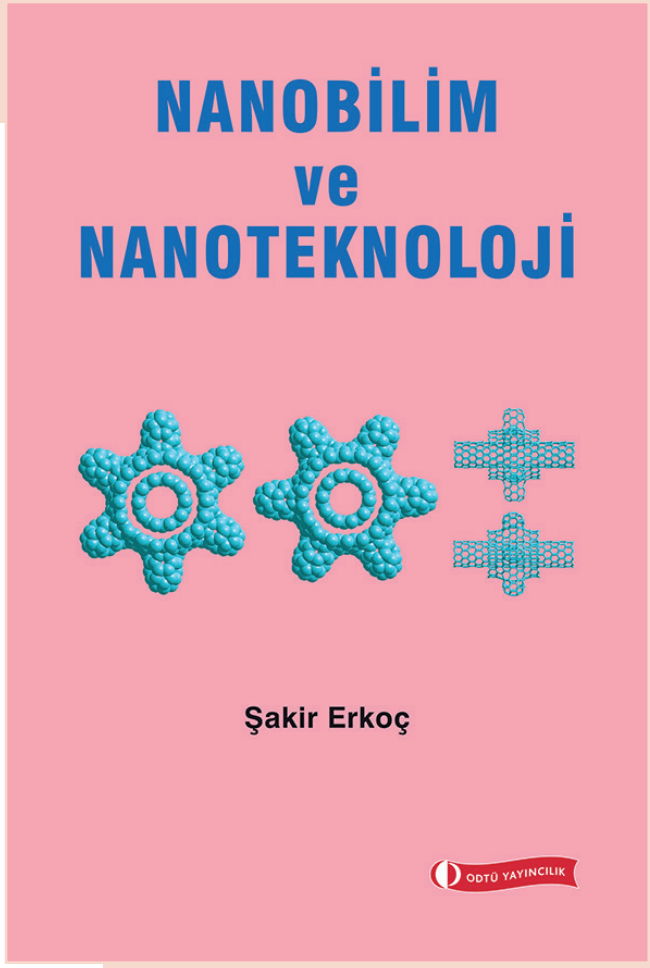
Academic

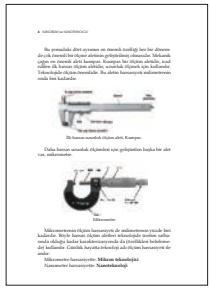
NANOSCIENCE AND NANOTECHNOLOGY

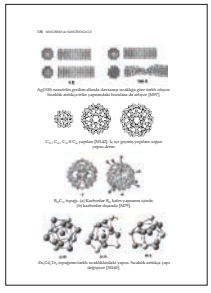
ŞAKİR ERKOÇ



During the developmental process in science and technology in time, a much more advanced and enormous step has been taken in the last quarter of the century. The door to the small world was opened with the big step. There was so much in the small world! As the great physicist Richard Feynman said, "There's plenty of room at the bottom!" The bottom refers to the atomic level. If we deal with the matter at the level of atoms, there is so much to do. This new field of interest was called nanoscience and nanotechnology since they deal with small objects. The last quarter of the century is called the age of nanoscience and nanotechnology. Nanotechnology can be summarized as the construction of functional structures at the nanometer scale by combining atoms and molecules. Nanotechnology deals with materials and systems changing the physical, chemical, and biological properties of nanoscale structures and components. To be able to produce materials and structures with a certain function at the nanoscale, in a controlled manner, is the goal of nanoscience and nanotechnology. This book aims to present essential introductory information about nanoscience and nanotechnology in the format of daily science and to reach a wide readership. Without getting into detail, the historical development of the subject and some areas of application are mentioned briefly.


Önsöz





ISBN 978-605-7744-27-2 **ACADEMIC**
SIZE 14 x 21 **FIRST EDITION**
PAGE 208 **ENSO CREAMY**

ŞAKİR ERKOÇ

Prof. Erkoç received his BS (1972) in Physics, MS (1974), and Ph.D. (1977) in Theoretical Chemistry from METU. He worked at Sussex University (1979/80) and joined the Department of Physics at METU as Instructor in 1980. He has been teaching courses mainly on Quantum Mechanics, and Atomic and Molecular Physics. He is among the founders of the Micro and Nanotechnology graduate program at METU.
NATO Research Visit to Stanford University (1986).
Visiting Professor at Oregon State University (1996/97).
Visiting Scientist grant by Japanese Atomic Energy Research Institute (1998).
Co-author of a book on Atomic and Molecular Physics, and the author of Quantum Mechanics.

9 786057 744272

PROFESSIONAL ETHICS IN ENGINEERING

ÜLKÜN TANSEL

Systematic attention to the issue of ethics in the field of engineering was observed in the US towards the end of the 1970s. Until recently, the knowledge of ethics has not gained importance as a separate subject in the engineering curriculum. The Accreditation Board for Engineering and Technology (ABET), an institution in the United States, has made it obligatory to provide students an "understanding of the ethical qualities of the engineering profession". In this way, ABET adopts an approach where students should start thinking about moral issues before they fall into a difficult situation. The ability to solve ethical problems just like engineering problems is gained through a lot of practice under the supervision of a guide. The case studies given in the book focus not only on the stories of disasters such as the Challenger accident, Chernobyl, and Bhopal events, but also on the daily moral concerns of an engineer. Their importance for engineers or engineering students is of their ordinary nature. These are moral problems that can happen to any engineer but should not be overlooked.
This book aims to exhibit the great wealth of knowledge that humanity has accumulated in the field of ethics for thousands of years and to organize and use this knowledge in such a way as to qualify engineers as honorable personalities.

ÜLKÜN TANSEL

In 1958, he graduated from Edina-Morningside High School in Minneapolis, Minnesota, USA. He received his bachelor's degree and his master's degree from METU, Department of Mining Engineering. He has numerous translated and copyrighted works. With one of his works, the children's novel named *In the Land of Light,* he received the Achievement Award of the Ministry of Culture in the 1979 International Year of the Child. Among his translated works, TÜBİTAK's (The Scientific and Technological Research Council of Türkiye) publication Earthquakes by Bruce Bolt was deemed worthy of the 2010 Turkish Academy of Sciences University Textbooks Copyright and Translation Award. With the translation of Thinking about the Earth by David Oldroyd, he received the 2010 Turkish Academy of Sciences Notable Work Award.

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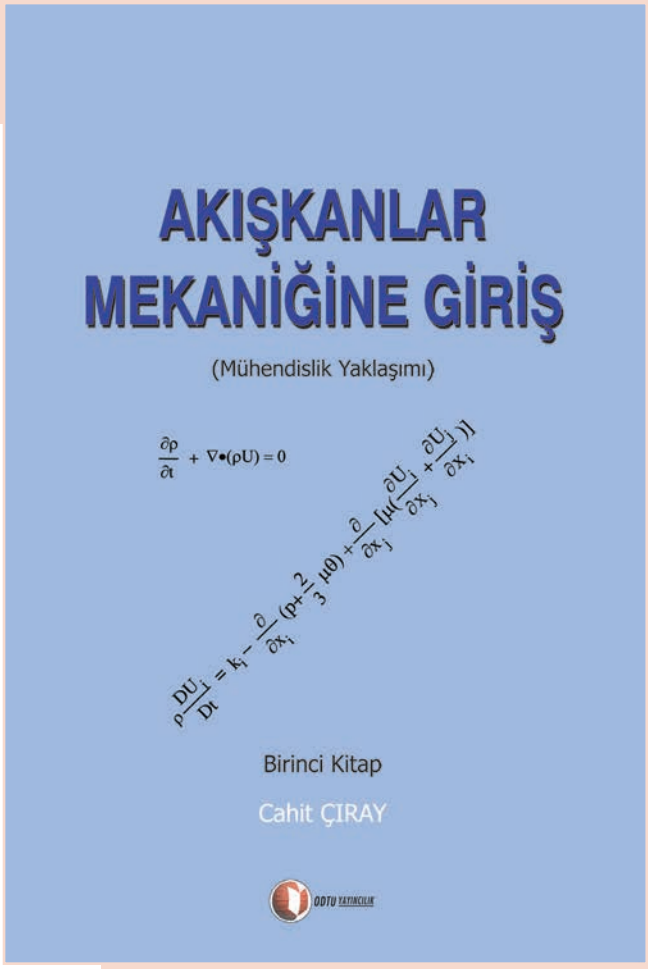
PAGE 176 ENSO CREAMY

Academic

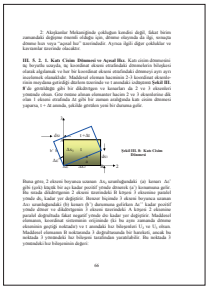
INTRODUCTION TO FLUID MECHANICS

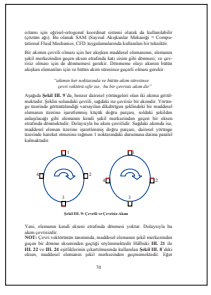
PROF. CAHİT ÇIRAY

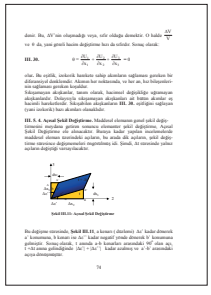


"In my opinion, 'science is the logic of nature or the universe.' The use of science for the benefit of society is also the duty of the engineer. Fluid Mechanics is one of the most effective basic engineering sciences in this process, perhaps the very first one. Engineering has to "predict" through computation. Therefore, mathematics is one of the sine qua non of the engineer. Introduction to Fluid Mechanics -as the name suggests- aims to provide a basis for those who are new in this field and to help those who desire to learn about the issue. The subjects are reviewed firstly from a physical point of view and efforts were made to "detail" the physical connections and physical meanings of mathematical relations."

—Prof. Cahit Çıray







ISBN 978-9944-344-36-4 **ACADEMIC**

SIZE 16 x 24 **FIRST EDITION**

PAGE 344 **HIGH-GRADE PAPER**

PROF. CAHİT ÇIRAY

Prof. Cahit Çıray received his master's degree from İstanbul Technical University in 1955 and his Ph.D. from Imperial College-University of London in 1966. He assumed the title of founding chairmanship of the METU Department of Aerospace Engineering. He worked as the Chairman at TAI (Turkish Aerospace Industries) Board of Directors and worked in NATO's fluid unity, as well.

Academic

FLUID MECHANICS II- TURBULENCE-FREE CURRENTS

PROF. CAHİT ÇIRAY

The first book of the *Introduction to Fluid Mechanics-Engineering Approach* series covers the fundamentals of Fluid Mechanics. The second one in the series, *Turbulence-Free Currents*, deals with the different currents of the Navier-Stokes fluid. In practical terms, these are classical turbulence-free currents. Common topics in engineering have been highlighted as much as possible, Reference books are used in some parts. The book tries to direct the attention of the reader to the valuable books with the citations made.

PROF. CAHİT ÇIRAY

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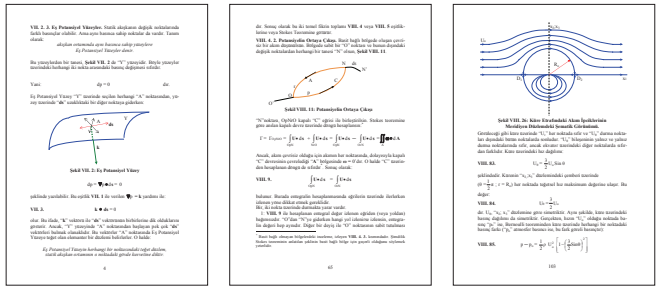

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PAGE 632 **HIGH-GRADE PAPER**

Academic

FLUID MECHANICS III- TURBULENCE AND SOME TURBULENT CURRENTS

PROF. CAHİT ÇIRAY

The third book of the *Introduction to Fluid Mechanics* series is reserved for the heading of *Turbulence and Some Turbulent Currents*. As in the other two books, the emphasis is placed on the physics of the event as much as possible. For long mathematical improvements not to overwhelm the physics of the event, some mathematical operations are shown in the Annexes.

In one chapter of the book, the subject of homogeneous-isotropic turbulent current is discussed. This type of turbulence can also be created, in part, under laboratory conditions. However, this particular type of turbulence has been added to the book as a chapter because it helps to understand many concepts used in the case of natural turbulence, and multiplicities, and to obtain, see, and evaluate the relationships between them in a relatively simple way.

Measuring turbulence multiplicities is an indispensable phenomenon in the perception and mathematical modeling of turbulence. In particular, measuring the oscillating portion of the speed helps us obtain valuable information. Therefore, a chapter of the book is reserved for the issue of the measurement of speed.

Covered topics -except for XV.2 and XV.3 subsections- are sorted, arranged, and explained according to the author's understanding. This understanding aims to transfer information and to help those who will work in this field to read and evaluate research articles and advanced books.

PROF. CAHİT ÇIRAY

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ISBN 978-9944-344-36-4 ACADEMIC
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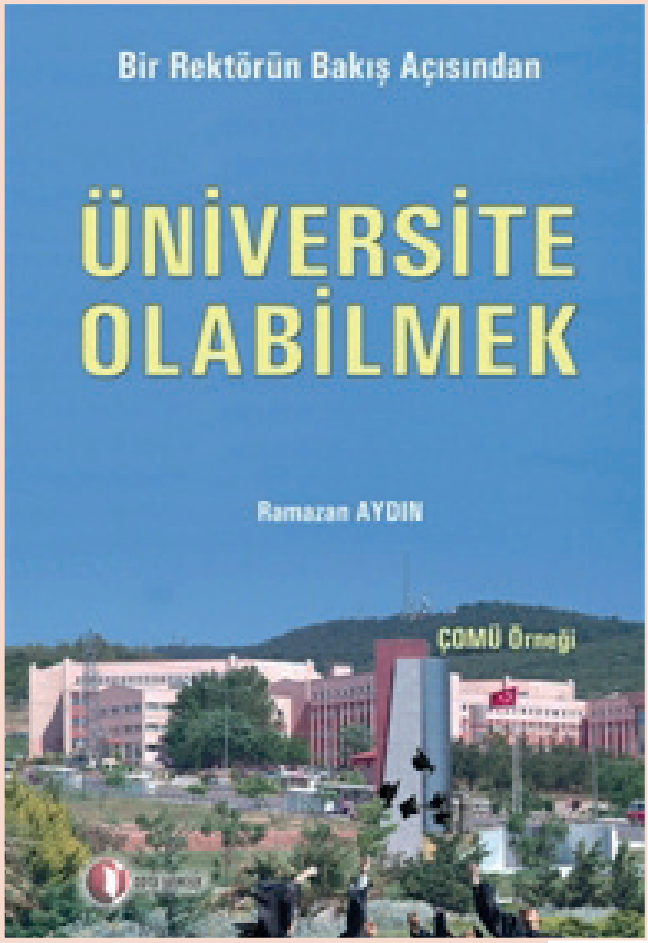
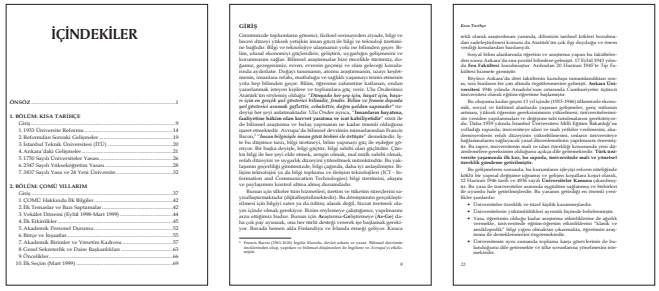
TO BE CALLED "A UNIVERSITY"

PROF. RAMAZAN AYDIN



"...With this book, I aim to share my experiences, thoughts, and suggestions regarding education, management, scientific research, and community service efforts which I have accumulated in my academic life for over 35 years together with my colleagues and other interested parties who struggle with academic, managerial and economic barriers. Neverthless, my real aim is to share all my experiences especially to become a "UNIVERSITY" in its real sense with the spread and modernization of higher education in Anatolia. The other objective of this book is to make concrete contributions to the introduction, popularization, and dissemination of science to society and thus to the development of scientific culture..."

—Prof. Ramazan Aydın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GİRİŞ

ISBN 978-9944-344-61-6 ACADEMIC
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PAGE 254 ENSO CREAMY

PROF. RAMAZAN AYDIN

Ramazan AYDIN graduated from Ankara University in 1967. He holds a master's degree and a doctorate in atomic physics from the Institute of Applied Physics at the University of Bonn. He started to work at Middle East Technical University (METU) in 1975. Starting from the vice presidency of the department, he worked in various management positions such as General Secretary at METU. He gave lectures at METU, the Military Academy, Hacettepe University, Gazi University, and ÇOMÜ (Çanakkale Onsekiz Mart University), and established training and research laboratories. He made numerous publications in English, German, and Turkish. He participated in research and teaching activities in overseas universities and research institutions. In the autumn of 1998, he was appointed as the Acting Rector of ÇOMÜ and served as the rector of this university for two terms (1999-2007).

Academic

FOUNDATIONS AND HIGHER EDUCATION

PROF. RAMAZAN AYDIN

The primary purpose of this collected work is to examine how higher education, scientific and technological research has been supported by foundations in the past and present, and how these institutions contributed to higher education. *Foundations and Higher Education* is written by using selected sources of historical and scientific importance and the information obtained from expert scientists. In the book, only foundations and foundation universities, prominent in higher education and scientific research, and their effects on higher education are discussed. In addition to higher education foundations in Turkey and Europe, similar institutions in the USA and Japan are also briefly discussed. Foundation universities, which were established to alleviate the burden of higher education in our country and with the claim of adding value to higher education, can continue their services for generations as permanent and sustainable institutions to the extent that they are institutionalized and they attach importance to universal principles and values. Keeping up with change, innovation, entrepreneurship, and high competitiveness is of vital importance for them. The success of these institutions depends on the fact that the Board of Trustees manages the university with a modern university understanding and a third-generation university approach, without ignoring the fact that the university is a foundation while adhering to the university strategic plan and keeping the commercial mindset away from the institution. Otherwise, they will have to accept the role of an ordinary university that produces unqualified graduates, has difficulty catching up with the times, and gets smaller and smaller.

ISBN 978-605-7744-09-8	ACADEMIC
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PROF. RAMAZAN AYDIN

Ramazan AYDIN graduated from Ankara University in 1967. He holds a master's degree and a doctorate in atomic physics from the Institute of Applied Physics at the University of Bonn. He started to work at Middle East Technical University (METU) in 1975. Starting from the vice presidency of the department, he worked in various management positions such as General Secretary at METU. He gave lectures at METU, the Military Academy, Hacettepe University, Gazi University, and ÇOMÜ (Çanakkale Onsekiz Mart University), and established training and research laboratories. He made numerous publications in English, German, and Turkish. He participated in research and teaching activities in overseas universities and research institutions. In the autumn of 1998, he was appointed as the Acting Rector of ÇOMÜ and served as the rector of this university for two terms (1999-2007).

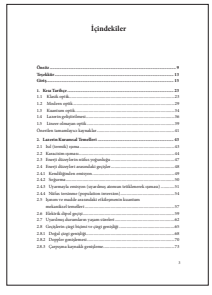
LASER AND ITS BASIC APPLICATIONS

PROF. RAMAZAN AYDIN

Laser and Its Basic Applications covers information about optics and laser, which will be the basis of the sub-branches of modern optics such as electro-optics, optoelectronics, quantum optics, and quantum electronics as well as today's advanced optical technology, which is gaining increasing importance in communication, computer and briefly information technology. The book aims to be a source of reference for senior physics undergraduate students, as well as some engineering students and even graduate students. In the first chapters, the foundations of the laser based on atomic physics and quantum physics are examined, while in the last chapters laser types and applications are presented in an expanded summary without going into detail.

PROF. RAMAZAN AYDIN

After completing his doctoral thesis in the field of experimental atomic physics at the Institute of Applied Physics (Institut für Angewandte Physik) of the University of Bonn under the supervision of Professor Penselin, Prof. Ramazan Aydın worked as an academician and administrator under various academic titles for 33 years at the Department of Physics at METU. He worked as the rector of Çanakkale Onsekiz Mart University for two terms (1999-2007).
Between 1980 and 1982, he conducted research in the fields of laser physics and laser spectroscopy at the University of Bonn where he was a researcher, with the support of the Alexander von Humboldt Foundation. Later, he continued his research in the field of laser at METU and Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.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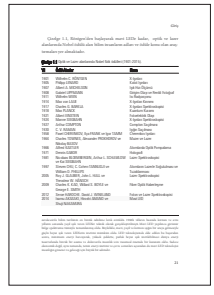
Önsöz



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Academic

TOPOLOGY

ZAFER ERCAN

While it is easy to answer what topology is within the sharp rules of mathematics, the approach to the answer sought on the philosophical plane will of course be relative. It may be said that between the sharp rules of mathematics and the flexible rules of philosophy, one of the points of origin of topology is the concept of convergence. The concept of convergence makes itself felt by the Zeno Paradox, square root two, pi, and similar numbers. Although square root two is an irrational number, the answer to what convergence is must be sought and understood in both philosophical and technical dimensions because the stones laid in the path that converge to it are rational (rational) numbers, etc. In mathematics, topology has branches such as algebraic topology, geometric topology, and set-theoretic topology (general topology, point topology). Although they have a common basic point, their content and methods vary. This book covers set-theoretic topology, and the main purpose of this branch of topology is to construct the concept of continuity in a technical way. One of the methods used in the contemporary construction process of this structure is the concept of neighborhood, and topology defines itself through this concept.

"Zafer Ercan, as the old saying goes, is a unique person. Moreover, he knows his subject well, goes deep into his subject, is also brave, and does not mince words no matter with whom he talks. I like such people, so I like Zafer. His book, like Zafer, is unique, original, and bold... A very useful book for those who know the subject! Do you know what I mean?"

—Ali Nesin

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SIZE 16 x 24 FIRST EDITION
PAGE 480 GLOSSY PAPER

ZAFER ERCAN

Born in 1965, Prof. Zafer Ercan received his bachelor's degree from Hacettepe University-Department of Mathematics (1987), master's degree from Middle East Technical University (1990), and his Ph.D. from The Queen's University of Belfast (1993). He has been working as a faculty member at Bolu İzzet Baysal University since 2007. His field of study is the functional analysis and general topology.

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