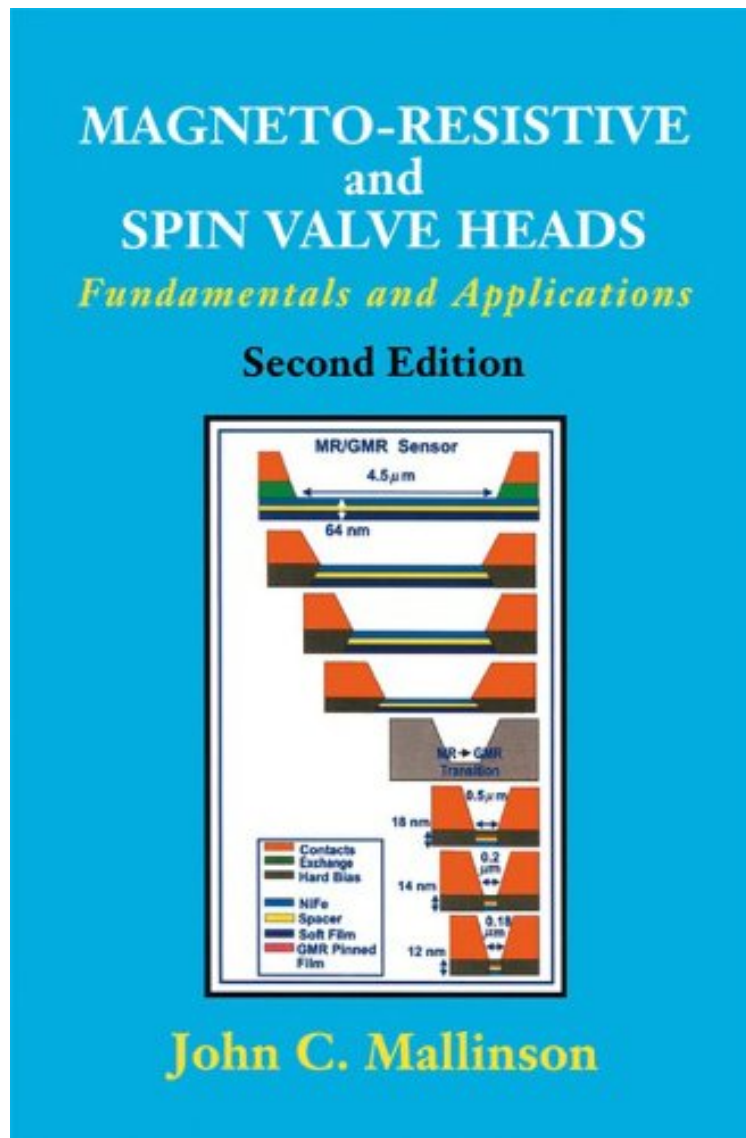


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# Magneto-Resistive and Spin Valve Heads: Fundamentals and Applications (Electromagnetism)

John C. Mallinson

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**John C. Mallinson : Magneto-Resistive and Spin Valve Heads: Fundamentals and Applications (Electromagnetism)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Magneto-Resistive and Spin Valve Heads: Fundamentals and Applications (Electromagnetism):

3 of 3 people found the following review helpful. This should include much more concrete examplesBy A CustomerIf any good teachers in this field are available around you, this can help you learn from the teachers very well. But if not,

it might take you much time to realize what MRH is, how it works, and what the background is, even if you are familiar with basic science (university level). More examples of practically being (having been) used structure, better you understand.

This book aims to be a comprehensive source on the physics and engineering of magneto-resistive heads. Most of the material is presented in a nonmathematical manner to make it more digestible for researchers, students, developers, and engineers. In addition to revising and updating material available in the first edition, Mallinson has added nine new chapters dealing with various aspects concerning spin valves, the electron spin tunneling effect, the electrostatic discharge effects, read amplifiers, and signal-to-noise ratios, making this a completely up-to-date reference. The previous edition of Magneto-Resistive Heads was the first volume in the new Academic Press series in Electromagnetism edited by Professor Isaak Mayergoyz, who is a well-recognized expert in the field.

"This book is particularly valuable for its discussions. With his very good feeling (or better formulated: experience), John Mallinson consistently finds a good balance between evaluating or presenting equations and discussing relationships, methods and schemes for different applications. In addition, this book is very readable and never dull, and, therefore, highly recommendable!"--READ-WRITE 96-27

From the Back Cover

The magnetic recording industry is a rapidly growing field in electrical engineering, materials science, and applied physics. The intent of this book is to discuss the physics and engineering of magneto-resistive heads, which are playing an increasingly important role in the modern technology of hard disk drives. The book is comprehensive and self-contained. Most of the material is presented in a nonmathematical manner to make it more "digestible" for researchers, students, developers, and practicing engineers. Each chapter concludes with a listing of the principal references in order to facilitate the reader's further study. The book is written by a well-recognized expert in the field of magnetic recording. It represents the first volume in the new Academic Press series in Electromagnetism edited by Professor Isaak Mayergoyz of the University of Maryland.

About the Author

Prof. Mayergoyz received his Master and Ph.D. degrees in the former Soviet Union where he worked as a senior research scientist in the Institute of Cybernetics of Ukrainian Academy of Sciences before his emigration to the United States. On his arrival to the United States in 1980, he became a full professor of Electrical and Computer Engineering Department of University of Maryland, College Park. He served as a consultant for many years for the Research and Development Center of General Electric Company and has been selected as a visiting research fellow of this center. He has published more than 300 scientific papers and patents as well as eight scientific books. He has been recognized by many awards at the University of Maryland and at the Magnetics Society of IEEE. He is a recognized authority in magnetics which is the area of this book.