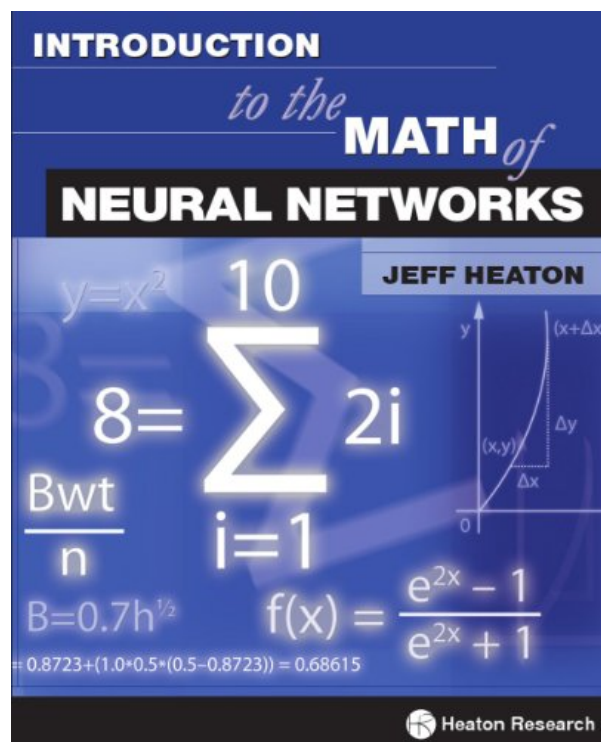


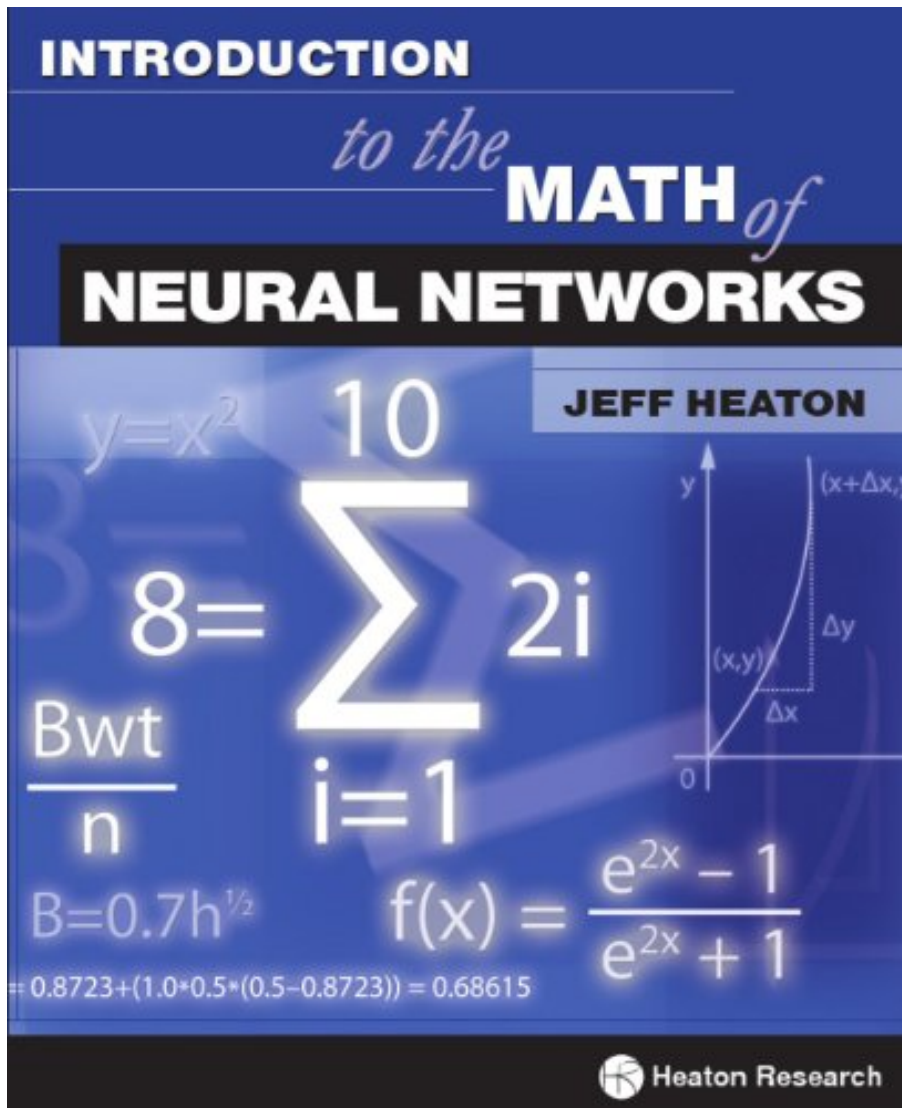
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INTRODUCTION TO THE MATH OF NEURAL NETWORKS

BY JEFF HEATON PDF

This book introduces the reader to the basic math used for neural network calculation. This book assumes the reader has only knowledge of college algebra and computer programming. This book begins by showing how to calculate output of a neural network and moves on to more advanced training methods such as backpropagation, resilient propagation and Levenberg Marquardt optimization. The mathematics needed by these techniques is also introduced. Mathematical topics covered by this book include first, second, Hessian matrices, gradient descent and partial derivatives. All mathematical notation introduced is explained. Neural networks covered include the feedforward neural network and the self organizing map. This book provides an ideal supplement to our other neural books. This book is ideal for the reader, without a formal mathematical background, that seeks a more mathematical description of neural networks.

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Excellent, but

By David M. Stanwick

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Many thanks!

12 of 12 people found the following review helpful.

Practical Math Applied to Neural Networks

By Robin T. Wernick

Its freshman calculus and applied math rolled together in a developing brew that suggests but never leads to a specific process to design neural networks. This introduction is gentle and it will all make sense if you buy another few books on the subject. However, this is not a one stop shop for neural network design. The book is more a basic presentation of various mathematical tools that can be applied to neural networks.

The book requires the reader to have familiarity with basic calculus and derivatives. Otherwise it's a walk in the park. After all, you are going to have to stretch a bit to benefit from this knowledge, so the effort is worth it. The title does say that this is an introduction, so don't be too disappointed that everything isn't laid out for you. There is no effort to categorize the functions introduced or to produce an overall design process of selection appropriate for a particular task. That information comes from further study in this area. Happy hunting.

I would like to praise the author for making the functional application and training of the neural network simple enough to get the reader started. This is a complex and potentially confusing area of applied mathematics. As is advised in these areas, it is best to learn to walk before trying to run. This book will help the reader walk correctly along this path.

Once you understand the proper processes, the world of application will open up for you. This material can be used in pattern recognition, financial forecasting image resolving, flight combat, and vehicle ride control. Buckle up and enjoy the flight.

10 of 10 people found the following review helpful.

Great for anyone who is new to neural networks and has relatively less math knowledge

By hjch

Unlike many neural network textbook that really focuses on difficult concepts, this book is straightforward and focuses on practical knowledge. Definitely worth \$10. Lastly, although the book says that you only need to know high school algebra to understand it, I highly recommend that you have some knowledge of calculus (if you are interested in neural networks, you probably do already).

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