

MR3154378 (Review) 92B20 34A36 34A37 34K45 68T05 92C20

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★**Neural networks with discontinuous/impact activations.**

Nonlinear Systems and Complexity.

Springer, New York, 2014. *xii+168 pp.* €106.95.

ISBN 978-1-4614-8565-0; 978-1-4614-8566-7

Publisher's description: "This book presents as its main subject new models in mathematical neuroscience. A wide range of neural networks models with discontinuities are discussed, including impulsive differential equations, differential equations with piecewise constant arguments, and models of mixed type. These models involve discontinuities, which are natural because huge velocities and short distances are usually observed in devices modeling the networks. A discussion of the models, appropriate for the proposed applications, is also provided.

"This book also:

- Explores questions related to the biological underpinning for models of neural networks.
- Considers neural networks modeling using differential equations with impulsive and piecewise constant argument discontinuities.
- Provides all necessary mathematical basics for application to the theory of neural networks.

"*Neural networks with discontinuous/impact activations* is an ideal book for researchers and professionals in the field of engineering mathematics that have an interest in applying these systems to computational problems."

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