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Autore	Wasser Frederick
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## Sommario/riassunto

A funny thing happened on the way to the movies. Instead of heading downtown to a first-run movie palace, or even to a suburban multiplex with the latest high-tech projection capabilities, many people's first stop is now the neighborhood video store. Indeed, video rentals and sales today generate more income than either theatrical releases or television reruns of movies. This pathfinding book chronicles the rise of home video as a mass medium and the sweeping changes it has caused throughout the film industry since the mid-1970s. Frederick Wasser discusses Hollywood's initial hostility to home video, which studio heads feared would lead to piracy and declining revenues, and shows how, paradoxically, video revitalized the film industry with huge infusions of cash that financed blockbuster movies and massive marketing campaigns to promote them. He also tracks the fallout from the video revolution in everything from changes in film production values to accommodate the small screen to the rise of media conglomerates and the loss of the diversity once provided by smaller studios and independent distributors.

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Autore	Koch Christof <1956->
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Edizione	[1st ed.]
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Soggetti	Computational neuroscience Neurons Neural networks (Neurobiology) Action potentials (Electrophysiology) Neural conduction
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Nota di bibliografia	Includes bibliographical references (p. 503-552) and index.
Nota di contenuto	Cover; Contents; Preface; List of Symbols; Introduction; 1 The Membrane Equation; 1.1 Structure of the Passive Neuronal Membrane; 1.1.1 Resting Potential; 1.1.2 Membrane Capacity; 1.1.3 Membrane Resistance; 1.2 A Simple RC Circuit; 1.3 RC Circuits as Linear Systems; 1.3.1 Filtering by RC Circuits; 1.4 Synaptic Input; 1.5 Synaptic Input Is Nonlinear; 1.5.1 Synaptic Input, Saturation, and the Membrane Time Constant; 1.5.2 Synaptic Interactions among Excitation and Shunting Inhibition; 1.5.3 Gain Normalization in Visual Cortex and Synaptic Input; 1.6 Recapitulation; 2 Linear Cable Theory 2.1 Basic Assumptions Underlying One-Dimensional Cable Theory2.1.1 Linear Cable Equation; 2.2 Steady-State Solutions; 2.2.1 Infinite Cable; 2.2.2 Finite Cable; 2.3 Time-Dependent Solutions; 2.3.1 Infinite Cable; 2.3.2 Finite Cable; 2.4 Neuronal Delays and Propagation Velocity; 2.5 Recapitulation; 3 Passive Dendritic Trees; 3.1 Branched Cables; 3.1.1

What Happens at Branch Points?; 3.2 Equivalent Cylinder; 3.3 Solving the Linear Cable Equation for Branched Structures; 3.3.1 Exact Methods; 3.3.2 Compartmental Modeling; 3.4 Transfer Resistances; 3.4.1 General Definition; 3.4.2 An Example; 3.4.3 Properties of  $K_{ij}$ ; 3.4.4 Transfer Resistances in a Pyramidal Cell; 3.5 Measures of Synaptic Efficiency; 3.5.1 Electrotonic Distance; 3.5.2 Voltage Attenuation; 3.5.3 Charge Attenuation; 3.5.4 Graphical Morphoelectrotonic Transforms; 3.6 Signal Delays in Dendritic Trees; 3.6.1 Experimental Determination of  $T_m$ ; 3.6.2 Local and Propagation Delays in Dendritic Trees; 3.6.3 Dependence of Fast Synaptic Inputs on Cable Parameters; 3.7 Recapitulation; 4 Synaptic Input; 4.1 Neuronal and Synaptic Packing Densities; 4.2 Synaptic Transmission Is Stochastic; 4.2.1 Probability of Synaptic Release; 4.2.2 What Is the Synaptic Weight?; 4.3 Neurotransmitters; 4.4 Synaptic Receptors; 4.5 Synaptic Input as Conductance Change; 4.5.1 Synaptic Reversal Potential in Series with an Increase in Conductance; 4.5.2 Conductance Decreasing Synapses; 4.6 Excitatory NMDA and Non-NMDA Synaptic Input; 4.7 Inhibitory GABAergic Synaptic Input; 4.8 Postsynaptic Potential; 4.8.1 Stationary Synaptic Input; 4.8.2 Transient Synaptic Input; 4.8.3 Infinitely Fast Synaptic Input; 4.9 Visibility of Synaptic Inputs; 4.9.1 Input Impedance in the Presence of Synaptic Input; 4.10 Electrical Gap Junctions; 4.11 Recapitulation; 5 Synaptic Interactions in a Passive Dendritic Tree; 5.1 Nonlinear Interaction among Excitation and Inhibition; 5.1.1 Absolute versus Relative Suppression; 5.1.2 General Analysis of Synaptic Interaction in a Passive Tree; 5.1.3 Location of the Inhibitory Synapse; 5.1.4 Shunting Inhibition Implements a "Dirty" Multiplication; 5.1.5 Hyperpolarizing Inhibition Acts Like a Linear Subtraction; 5.1.6 Functional Interpretation of the Synaptic Architecture and Dendritic Morphology: AND-NOT Gates; 5.1.7 Retinal Directional Selectivity and Synaptic Logic

## Sommario/riassunto

In this volume, Koch shows how individual nerve cells can multiply, integrate, or delay synaptic inputs, and how information is encoded in the voltage across the membrane, in the intracellular calcium concentration, or in the timing of individual spikes.