$$\nu_{Na} = 115 \text{mV}$$
, $\nu_{K} = -12 \text{mV}$, $\nu_{Na} = 10.6 \text{mV}$, $C = 1 \mu \text{Farad/cm}^{2}$,

where " Ω " is one Ohm, the unit of resistance.

Non-dimensionalise with $v = \nu/\nu_{Na}$ and $\tau = t/[5ms]$, as $\tau_n(\nu) \sim O(5ms)$, and we have

$$e \frac{dv}{d\tau} = I_{est}^{\star} - g(v, n) \stackrel{\text{def}}{=} I_{est}^{\star} - \left[m_{\infty}^{3}(v)(0.85 - n)(v - 1) + \gamma_{K}n^{4}(v + v_{K}) + \gamma_{L}(v - v_{L}) \right]$$

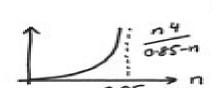
 $\frac{dn}{d\tau} = k(v, n) \stackrel{\text{def}}{=} \frac{1}{\tau_{+}^{*}(v)} \left[n_{\infty}(v) - n \right],$ (21)

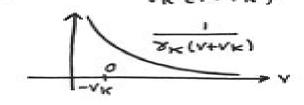
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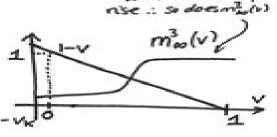
$$\begin{split} \epsilon &= \frac{C}{G_{Na}[5\text{ms}]} = 2 \times 10^{-3}, \ \, \gamma_K = \frac{G_K}{G_{Na}} \sim 0.3, \ \, \gamma_L = \frac{G_L}{G_{Na}} \sim 3 \times 10^{-3}, \\ I_{ext}^* &= \frac{I_{ext}}{G_{Na}\nu_{Na}}, \ \, v_K = -\frac{\nu_K}{\nu_{Na}} \sim 0.1, \ \, v_L = -\frac{\nu_L}{\nu_{Na}} \sim 0.1, \ \, \tau_n^*(v) = \tau_n(\nu)/[5\text{ms}] \sim O(1). \end{split}$$

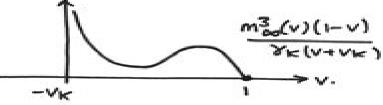
We can now sketch the nullclines, and noting the different timescales of the membrane potential response to the gating variable response (as $\epsilon \ll 1$) we can consider the phase plane trajectories in terms of fast and slow dynamics.

Plotting nullclines. $I_{ext}^* = 0$.









Mathematical Physiology

Ying Liu

Mathematical Physiology:

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Physiology and Biology ,1999 Applied Mathematical Models in Human Physiology Johnny T. Ottesen, Mette S. Olufsen, Jesper K. Larsen, 2004-02-01 This book introduces mathematicians to real applications from physiology Using mathematics to analyze physiological systems the authors discuss models reflecting current research in cardiovascular and pulmonary physiology In particular they present models describing blood flow in the heart and the cardiovascular system as well as the transport of oxygen and carbon dioxide through the respiratory system and a model for baroreceptor regulation This is the only book available that analyzes up to date models of the physiological system at several levels of detail both simple real time models that can be directly used in larger systems and more detailed reference models that show the underlying physiological mechanisms and provide parameters for and validation of simpler models The book also covers two dimensional modeling of the fluid dynamics in the heart and its ability to pump and includes a discussion of modeling wave propagation throughout the systemic arteries An Introduction to Mathematical Modeling in Physiology, Cell Biology, and Immunology Tames Sneyd,2002 In many respects biology is the new frontier for applied mathematicians This book demonstrates the important role mathematics plays in the study of some biological problems It introduces mathematicians to the biological sciences and provides enough mathematics for bioscientists to appreciate the utility of the modelling approach The book presents a number of diverse topics such as neurophysiology cell biology immunology and human genetics It examines how research is done what mathematics is used what the outstanding questions are and how to enter the field Also given is a brief historical survey of each topic putting current research into perspective The book is suitable for mathematicians and biologists interested in mathematical methods in biology **Differential Equations for Studies in** Computational Electrophysiology Karoline Horgmo Jæger, Aslak Tveito, 2023-05-27 This open access text aims at giving you the simplest possible introduction to differential equations that are used in models of electrophysiology It covers models at several spatial and temporal scales with associated numerical methods. The text demonstrates that a very limited number of fundamental techniques can be used to define numerical methods for equations ranging from ridiculously simple to extremely complex systems of partial differential equations Every method is implemented in Matlab and the codes are freely available online By using these codes the reader becomes familiar with classical models of electrophysiology like the cable equation the monodomain model and the bidomain model But modern models that have just started to gain attention in the field of computational electrophysiology are also presented If you just want to read one book it should probably not be this one but if you want a simple introduction to a complex field it is worth considering the present text An Introduction to Undergraduate Research in Computational and Mathematical Biology Hannah Callender Highlander, Alex Capaldi, Carrie Diaz Eaton, 2020-02-17 Speaking directly to the growing importance of research experience in undergraduate mathematics programs this volume offers suggestions for undergraduate appropriate research projects in mathematical and computational biology for students and their faculty mentors. The aim of each chapter is twofold for faculty to alleviate the challenges of

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