

From the plot of the nullclines, we have at the equilibrium point

$$\left(\frac{dn}{dv}\right)_{k=0} = -\frac{k_v}{k_n} > 0 > \left(\frac{dn}{dv}\right)_{g=0} = -\frac{g_v}{g_n}. \quad (*)$$

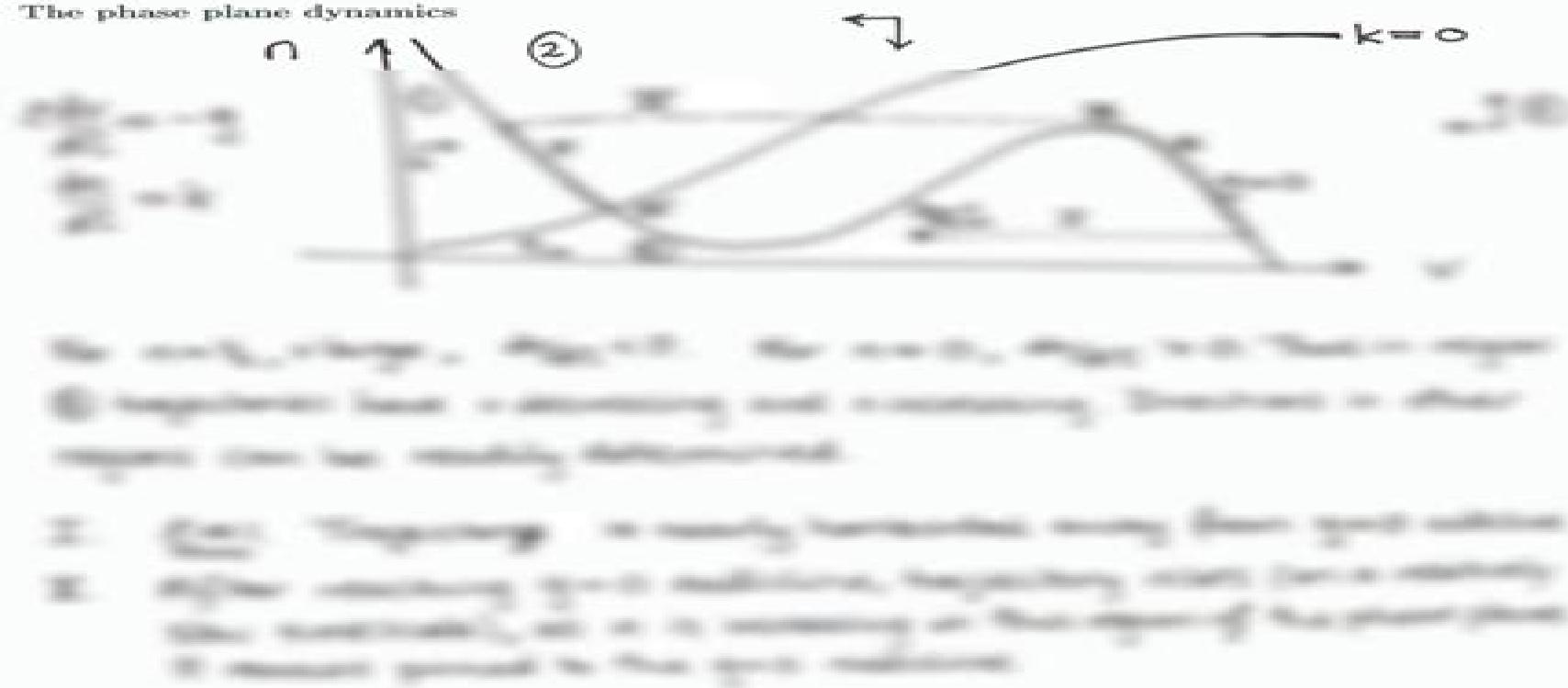
From above,  $g_n, g_v > 0$  at the equilibrium point.

Also  $k_n = -\frac{1}{T_n} < 0$ . Hence  $k_v > 0$  and  $\underline{-g_v + k_n} < 0$ .

Multiply (\*) by  $(-k_n g_n) > 0$  gives  $g_n k_v > g_v k_n$   
i.e.  $\underline{-g_v k_n + g_n k_v > 0}$

Hence we have that the stationary point is stable.

The phase plane dynamics



# Mathematical Physiology

**Anita T. Layton, Aurelie Edwards**

## Mathematical Physiology:

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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

**Mathematical Cardiac Electrophysiology** Piero Colli Franzone, Luca Franco

Pavarino, Simone Scacchi, 2014-10-30 This book covers the main mathematical and numerical models in computational electrocardiology ranging from microscopic membrane models of cardiac ionic channels to macroscopic bidomain monodomain eikonal models and cardiac source representations These advanced multiscale and nonlinear models describe the cardiac bioelectrical activity from the cell level to the body surface and are employed in both the direct and inverse problems of electrocardiology The book also covers advanced numerical techniques needed to efficiently carry out large scale cardiac simulations including time and space discretizations decoupling and operator splitting techniques parallel finite element solvers These techniques are employed in 3D cardiac simulations illustrating the excitation mechanisms the anisotropic effects on excitation and repolarization wavefronts the morphology of electrograms in normal and pathological tissue and some reentry phenomena The overall aim of the book is to present rigorously the mathematical and numerical foundations of computational electrocardiology illustrating the current research developments in this fast growing field lying at the intersection of mathematical physiology bioengineering and computational biomedicine This book is addressed to graduate student and researchers in the field of applied mathematics scientific computing bioengineering electrophysiology and cardiology

**Mathematical Physiology; Blood Flow and Electrically Active Cells** H. Melvin Lieberstein, 1973

**Mathematical Modeling and Validation in Physiology** Jerry J. Batzel, Mostafa Bachar, Franz Kappel, 2012-12-14 This volume synthesizes theoretical and practical aspects of both the mathematical and life science viewpoints needed for modeling of the cardiovascular respiratory system specifically and physiological systems generally Theoretical points include model design model complexity and validation in the light of available data as well as control theory approaches to feedback delay and Kalman filter applications to parameter identification State of the art approaches using parameter sensitivity are discussed for enhancing model identifiability through joint analysis of model structure and data Practical examples illustrate model development at various levels of complexity based on given physiological information The sensitivity based approaches for examining model identifiability are illustrated by means of specific modeling examples The themes presented address the current problem of patient specific model adaptation in the clinical setting where data is typically limited

**Mathematical**

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**The Mathematical Approach to Physiological Problems** Douglas Shepard

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Hoppensteadt,1981 [Using the Mathematics Literature](#) Kristine K. Fowler,2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathemati

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