

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

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

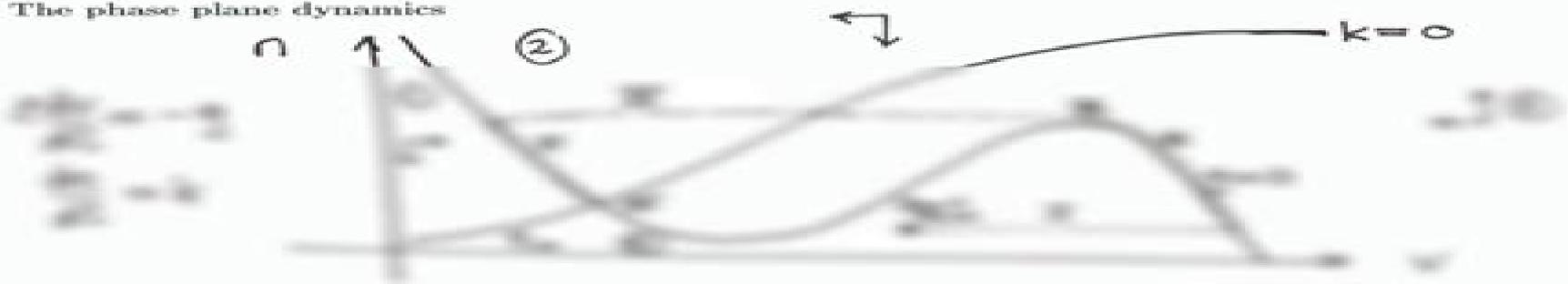
From above, $g_n, g_v > 0$ at the equilibrium point.

Also $k_n = -1/\tau_n^* < 0$. 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



The nullclines, $k=0$ and $g=0$, are shown. The intersection point E represents the stationary and asymptotically stable point. The trajectories in the phase plane can be readily determined.

1. The trajectory is nearly horizontal away from the equilibrium point.
2. After reaching the nullclines, trajectory moves vertically towards the equilibrium point E in the region of the phase plane it moves parallel to the $g=0$ nullcline.

Mathematical Physiology

James Keener, James Sneyd



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Table of Contents Mathematical Physiology

1. Understanding the eBook Mathematical Physiology
 - The Rise of Digital Reading Mathematical Physiology
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Physiology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Physiology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Physiology
 - Personalized Recommendations
 - Mathematical Physiology User Reviews and Ratings
 - Mathematical Physiology and Bestseller Lists
5. Accessing Mathematical Physiology Free and Paid eBooks

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 - Mathematical Physiology eBook Subscription Services
 - Mathematical Physiology Budget-Friendly Options
6. Navigating Mathematical Physiology eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Physiology Compatibility with Devices
 - Mathematical Physiology Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Physiology
 - Highlighting and Note-Taking Mathematical Physiology
 - Interactive Elements Mathematical Physiology
 8. Staying Engaged with Mathematical Physiology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Physiology
 9. Balancing eBooks and Physical Books Mathematical Physiology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Physiology
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mathematical Physiology
 - Setting Reading Goals Mathematical Physiology
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mathematical Physiology
 - Fact-Checking eBook Content of Mathematical Physiology
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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