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Vertical Distribution of Wind in the Atmosphere
and the Role of Turbulence

1. Introduction: The vertical distribution of wind in the atmosphere is a complex phenomenon, involving the interaction of various physical processes. This paper discusses the role of turbulence in this process.

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2. Theoretical Considerations:

"The vertical distribution of wind is determined by the balance of forces acting on the air mass. In the presence of turbulence, the wind profile is modified significantly."

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3. Observations:

"Observations of the vertical distribution of wind in the atmosphere show that the wind speed generally increases with height, but the rate of increase is highly variable due to turbulence."

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4. Conclusions:

"The vertical distribution of wind in the atmosphere is a complex phenomenon, involving the interaction of various physical processes. Turbulence plays a significant role in this process."

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References

- 1. R. G. Bragg: "The Vertical Distribution of Wind in the Atmosphere and the Role of Turbulence in the Atmospheric Layer Near the Ground," 14
- 2. R. G. Bragg: "The Theory of Large-Scale Convection," 15
- 3. G. B. Tulin: "A Stationary Model of Vertical Distribution of Wind in the Case of Curved Isobars," 16

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Stability

- 1.1. Stability:
- 1.1.1. Stability of a system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.
- 1.1.2. Stability of a system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.

Control

- 1.2. Control:
- 1.2.1. Control of a system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.
- 1.2.2. Control of a system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.
- 1.2.3. Control of a system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.

Design

- 1.3. Design:
- 1.3.1. Design of a control system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.
- 1.3.2. Design of a control system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.
- 1.3.3. Design of a control system with a transfer function $G(s)$ and a feedback transfer function $H(s)$ is determined by the roots of the characteristic equation $1 + G(s)H(s) = 0$.

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