Network Congestion Control
Managing Internet Traffic

Want to learn more about the background and concepts of Internet congestion control? This indispensable text draws a sketch of the future in an easily comprehensible fashion. Special attention is placed on explaining the how and why of congestion control mechanisms - complex issues so far hardly understood outside the congestion control research community. A chapter on Internet Traffic Management from the perspective of an Internet Service Provider demonstrates how the theory of congestion control impacts on the practicalities of service delivery.

Features:

- Comprehensive, easy-to-read documentation on the advanced topic of congestion control without too heavy maths.
- Aims to give a thorough understanding of the evolution of Internet congestion control: how TCP works, why it works the way it does, why some congestion control mechanisms failed for the Internet.
- Gives an overview of the state-of-the-art in congestion control research and an outlook into the future.
- Explains the Chiu/Jain vector diagrams and introduces a new method of using these diagrams for analysis & design.
- Includes examples/problems for educators in the appendix.
- Accompanying website with Java tool that simulates the behaviour of congestion control mechanisms as well as examples, links to code and projects/bibliography.

This exceptional book is suitable for advanced networking and Internet courses, researchers in CS and EE communications networking. It is also suitable for Network administrators, ISPs, application providers.

Author

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