

Principles And Practices Of Interconnection Networks

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one of the greatest challenges faced by designers of digital systems is optimizing the communication and interconnection between system components interconnection networks offer an attractive and economical solution to this communication crisis and are fast becoming pervasive in digital systems current trends suggest that this communication bottleneck will be even more problematic when designing future generations of machines consequently the anatomy of an interconnection network router and science of interconnection network design will only grow in importance in the coming years this book offers a detailed and comprehensive presentation of the basic principles of interconnection network design clearly illustrating them with numerous examples chapter exercises and case studies it incorporates hardware level descriptions of concepts allowing a designer to see all the steps of the process from abstract design to concrete implementation case studies throughout the book draw on extensive author experience in designing interconnection networks over a period of more than twenty years providing real world examples of what works and what doesn't tightly couples concepts with implementation costs to facilitate a deeper understanding of the tradeoffs in the design of a practical network a set of examples and exercises in every chapter help the reader to fully understand all the implications of every design decision

this study investigates whether the existing regulatory framework governing the telecommunications sector in countries in sub saharan africa effectively deals with emerging competition related concerns in the liberalised sector using uganda as a case study it analyses the relevant provisions of the law governing competition in the telecommunications sector and presents three key findings firstly while there is comprehensive legislation on interconnection and spectrum management inefficient enforcement of the legislation has perpetuated concerns surrounding spectrum scarcity and interconnection secondly the legislative framework governing anti competitive behaviour though in line with the established principles of competition law is not sufficient specifically the framework is not equipped to govern the conduct of multinational telecommunications groups that have a strong presence in the telecommunications sector major factors hampering efficient competition regulation include uganda's sole reliance on sector specific competition rules restricted available remedies and a regulator with limited experience of enforcing competition legislation the weaknesses in the framework strongly suggest the need to adopt an economy wide competition law lastly wireless technology is the main means through which the population in uganda accesses telecommunications services greater emphasis should be placed on regulating conduct in the wireless communications markets

the links between trade policy and competition policy have become more important in recent years this book which includes a whole chapter on the

telecommunications sector throws new light on all these issues in the lead up to the wto s new round of negotiations

south asian leaders have made it a priority to tackle key regional issues such as poverty environment degradation trade and investment barriers and food insecurity among others

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