

Computer Networking



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著者:James F. Kurose

出版者:Pearson

出版时间:2012-3-5

装帧:Hardcover

isbn:9780132856201

Computer Networking continues with an early emphasis on application-layer paradigms and application programming interfaces (the top layer), encouraging a hands-on experience with protocols and networking concepts, before working down the protocol stack to more abstract layers.

This book has become the dominant book for this course because of the authors' reputations, the precision of explanation, the quality of the art program, and the value of their own supplements.

Visit the authors' blog for information and resources to discuss the newest edition, as well as valuable insights, teaching tips, and discussion about the field of Computer Networking <http://kuroseross.com>

作者介绍:

Jim Kurose

Jim Kurose is a Distinguished University Professor of Computer Science at the University of Massachusetts, Amherst.

Dr. Kurose has received a number of recognitions for his educational activities including Outstanding Teacher Awards from the National Technological University (eight times), the University of Massachusetts, and the Northeast Association of Graduate Schools. He received the IEEE Taylor

Booth Education Medal and was recognized for his leadership of Massachusetts' Commonwealth Information Technology Initiative. He has been the recipient of a GE Fellowship, an IBM Faculty Development Award, and a Lilly Teaching Fellowship.

Dr. Kurose is a former Editor-in-Chief of IEEE Transactions on Communications and of IEEE/ACM Transactions on Networking. He has been active in the program committees for IEEE Infocom, ACM SIGCOMM, ACM Internet Measurement Conference, and ACM SIGMETRICS for a number of years and has served as Technical Program Co-Chair for those conferences. He is a Fellow of the IEEE and the ACM. His research interests include network protocols and architecture, network measurement, sensor networks, multimedia communication, and modeling and performance evaluation. He holds a PhD in Computer Science from Columbia University.

Keith RossKeith Ross

Keith Ross is the Leonard J. Shustek Chair Professor and Head of the Computer Science Department at Polytechnic Institute of NYU. Before joining NYU-Poly in 2003, he was a professor at the University of Pennsylvania (13 years) and a professor at Eurecom Institute (5 years). He received a B.S.E.E from Tufts University, a M.S.E.E. from Columbia University, and a Ph.D. in Computer and Control Engineering from The University of Michigan. Keith Ross is also the founder and original CEO of Wimba, which develops online multimedia applications for e-learning and was acquired by Blackboard in 2010.

Professor Ross' s research interests are in security and privacy, social networks, peer-to-peer networking, Internet measurement, video streaming, content distribution networks, and stochastic modeling. He is an IEEE Fellow, recipient of the Infocom 2009 Best Paper Award, and recipient of 2011 and 2008 Best Paper Awards for Multimedia Communications (awarded by IEEE Communications Society). He has served on numerous journal editorial boards and conference program committees, including IEEE/ACM Transactions on Networking, ACM SIGCOMM, ACM CoNext, and ACM Internet Measurement Conference. He also has served as an advisor to the Federal Trade Commission on P2P file sharing.

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标签

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评论

14-740学期结束就算读完吧 虽然final太糟糕

application layer那块讲得很好

自顶向下完全是讲反了，整本书写得跟屎一样。同类书籍推荐 Andrew S. Tanenbaum 写的 Computer Networks，比这本好很多。

One of the best books in computer network!

重点看了一下网络层及以上的部分，再底层的部分基本扫了一眼就跳过了。TCP协议的部分写的深入浅出，层层递进，看完基本能做到知其然，知其所以然。

整本书，除了安全那章重点看了之外，其他大概翻阅了下....对网络的讲解，觉得还是去看cisco之类的教学视频实际点....

从上往下说才是入门王道！以前从下网上学看的云里雾里的，根本不知道为啥要有这么些个东西

是本好书。。

读过的叙述最清晰的网络教材，NYU-poly 教授写的书，本来向上他的课网络课来着，结果我来了他却去了上海也是醉

拜一个 不错

一本 没有它就会挂科 有了它就能拿A的书

极其流畅的一本书！由于各种原因退了network的课，又拖到下一年了。。不过目前也

用不上就大概翻一翻吧，至少几个专有名词是需要知道含义的。

本学期最爱课本！！

虽然可能要挂了虽然课上也没讲多少没考多少。但这本书还是结构条例挺清晰的～

常看常新，工作中凡是遇到关于网络的疑惑总是能在这里找到答案。

很不错的网络入门书，深入浅出，对初学者很友好。不过，链路层那一章讲得有点混乱。
。

WEB-LIFE

这学期的课本。前面对整个internet stack的讲解很到位

复习得要吐血了 课程确实很扎实 project也很赞啊 谢谢老师

这本书，神了。

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书评

我只是想告诉你，这本书有配套的公开课可以听，不评价书本身，因为还没有彻底比较过，总之，适合自己的总是最好的。

地址：<http://ocw.nthu.edu.tw/ocw/index.php?page=course&cid=13>& 授課老師 黃能富
清華大學資訊工程學系 特聘教授 國立清華大學資訊工程系博士 (1986)...

第二次读完这本书，希望不要去读第三边了，再读一边意味着DQE挂了。
这本书已经有第五版了，所以这本第四版的寿命就是这样短短两年，当然对于网络，两年并不是一个特别短的时间。我没有读过AST的Computer Networks，据说AST的那本书更全面，而Top-Down更适合入门。我自己觉...

1. 评价下书

翻译确实不咋的，我很讨厌把专业术语只留中文，不放英文的情况。觉得这样会增加理解的难度。

不过，这本书真的很赞！作者很善于让知识有缘由地展现给它的读者，一切自有因果。而且，很幽默，读起来很轻松(本来自顶向下讲就容易让人理解)。比如，第309页讲解...

垃圾翻译误我青春！垃圾翻译误我青春！垃圾翻译误我青春！

真的，其实原本对计算机技术书籍翻译质量差有了一定的心理预期，但这本书还是刷新了我对翻译人不如机的理解。尤其对于初次接触计网的读者，译者的不用心，徒增了很多不必要的理解难度。今天实在是气不过，无奈网购了一...

有时候我会想，计算机科学分门别类如此之多，前端、后台、数据挖掘、神经网络、编译器、算法、机器视觉...计算机科学大概是最会发明吓唬人的词汇的领域之一了吧？当我在想成为一个顶尖程序员的时候，我到底是想让自己掌握怎样的知识，或者是具备怎样的能力呢？一开始我觉得这...

——这是一篇很严肃的科研读后感

在学习《计算机网络》这本书以前，我对网络的概念是什么样的呢？最理性的描述就是一些节点和节点之间关系组成的集合（via离散数学&数据结构与算法），不过这些都是理性思维的定义啦。假设一个文科生，或者是没有学过这两门课的人，可能会说：蜘...

第6版配套学习资源：

https://wps.pearsoned.com/ecs_kurose_compnetw_6/216/55463/14198700.cw/index.html 英文第7版已经出版，更新内容详见：

<https://www.pearson.com/us/higher-education/program/Kurose-Computer-Networking-A-Top-Down-Approach-7th-Edition/PGM1101673....>

大二时学的。本书翻译较差，怀疑是机翻，许多地方前言不搭后语，看得十分难受。然而这本书是教材，又不得不看，不然早就投奔Tanenbaum了。举几个错误（第六版）：印刷错误如P296图5-7，CRC运算式倒3行应为1010。排版错误如5.3.2随机接入协议P304 “如果这个适配器选择K=1，它...

这是我看过的翻译最好的几本书之一，感觉翻译很到位，而且由于书中内容本身组织的很好，所以一路看下来真的舒服，主要是思路特别流畅（自顶向下的思路还是强烈推荐）。对于入门者来说，强烈推荐，而且书中也说了，本书希望可以讲给高中生数学水平的人也能听得懂，所以对于本课程...

这本书的英文原版是很好的，但第6版翻译极差，全程我都是对照英文原版看的，有些地方翻译可以说已经到了误人子弟的程度，翻译和原话逻辑完全不同，基本的术语也都翻译得让人十分迷惑，比如“packet-switch”作者翻译为“分组交换”、“message”作者翻译为“报文”，可...

来咯解决了

这本书已经有第五版了，所以这本第四版的寿命就是这样短短两年，当然对于网络，两年并不是一个特别短的时间。我没有读过AST的Computer Networks，据说AST的那本书更全面，而Top-Down更适合入门。我自己觉得其实入门只要一本书就够了，这两本里随便挑一本就OK。读过...

不是点评作者,是点评翻译的人,很多翻译差强人意,有基础的还好,没基础直接把你带到另外一个方向了,现在中国的这些翻译书的人,太不尽心了.哎
.....还没有道翻译得好,我想说这些翻译的人,,是真正的专业人士吗?
比如说Specifically可以是特别的,也可以翻译成具体的,,文中就是翻译...

非常通俗易懂的一本入门级别的书,想大概全面地了解计网的话,是个很好的选择了。内容很全,讲解细致,语言组织也很好,很棒的一本书!
标准的国外教材,讲解生动,尤其是例子举得非常贴切,让人能够很好理解对应的知识翻译完全没有问题,信达雅兼备,当然,能看懂原版的话, ...

翻译蛋疼, p152 “接收窗口按向前移动分组的编号向上交付这些分组”, 英文是"The receive window is then moved forward by the number of packets delivered to the upper layer."明显意思是: 接收窗口然后按照交付给上层的分组数目向前移动。
建议哪里读了觉得怪怪的去对照英...

不愧为自顶向下方法。
读完应用层去看运输层,觉得概念都清晰了很多。本书最大特色就是通过抽象,从简单到复杂的方法来介绍网络的相关概念。内容有作者推荐的各种RFC和相关文献,如果想要深入研究需要很认真阅读。
经典内容为第一到四章, 4.5开始介绍了一些路由选择算法, 从...

如同这本书名一样,作者避开深入讲解底层硬件是怎么传输信号的,直接从可视化的角度讲解计算机网络,从应用层往下讲的一个好处就是,读者可以实实在在的去感受讲解的过程,估计很多学网络的人刚开始的时候连自己家的网络都没有搭过。
其次,这本书最实在的是里面...

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