

Wireless Networking in the Developing World

This book was created by a team of individuals who each, in their own field, are actively participating in the ever-expanding Internet by pushing its reach farther than ever before. The massive popularity of wireless networking has caused equipment costs to continually plummet, while equipment capabilities continue to increase. By applying this technology in areas that are badly in need of critical communications infrastructure, more people can be brought online than ever before, in less time, for very little cost.

We hope to not only convince you that this is possible, but also show how we have made such networks work, and to give you the information and tools you need to start a network project in your local community.

Inside, you will learn how to:

- *Build a wide-area wireless network using inexpensive 802.11 wireless networking equipment*
- *Understand the basics of radio propagation, including environmental effects, transmission lines, and antenna characteristics*
- *Choose wireless equipment that will fit your communication needs, by estimating maximum range, capacity, features, and cost*
- *Share a common Internet connection between many sites*
- *Ensure ongoing interest in the network project by directly involving people in the local community*

ISBN 1-4116-7837-0



Wireless Networking in the Developing World

Wireless Networking in the Developing World

A practical guide to planning and building low-cost telecommunications infrastructure