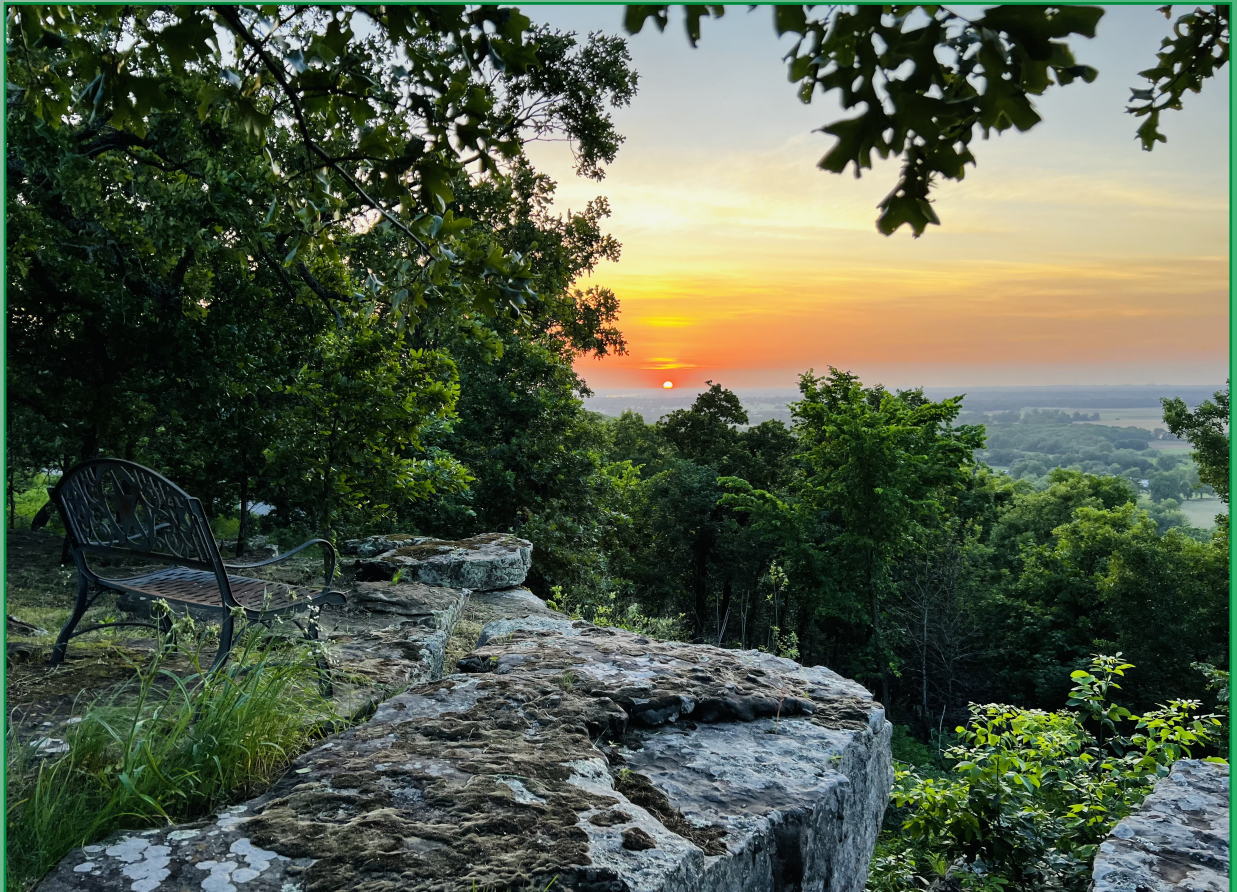


# Ham (Amateur) Radio Evergreen Book

*Establish reliable, lowest technical common denominator communications,  
locally & regionally, in a HOA*

*with over 300 illustrations*



**Dr. Marcus O. Durham, PhD, ThD  
Rosemary Durham, CFEI, CVFI**



# Ham (Amateur) Radio Evergreen Book

*Reliable communications in a HOA*

*with over 300 illustrations*

The Evergreen Book is a practical guide for amateur from zero to a hundred watts. This provides the information and techniques to study for your license all the way to building your Technician and General station. You can get your license in 4-weeks. Promise. We ask no questions about prior technical experience. The objective is simple.

*Establish reliable, lowest technical common denominator communications, locally & regionally, in a HOA.*

This is a collection of select articles originally written for the Evergreen Communications Group of ham radio operators. Over 300 articles have been written with about 100 included. This compilation of articles provides a concise, readable, one-page snapshot of each topic.

Most hams now live in areas with antenna restrictions, so novel Triad antennas built on the work of Tesla were developed.

In association with antennas and protection, we have a career of lightning and grounding research and subsequently have written numerous IEEE papers on the topic.

Although the ranch, where our research lab and our home are located, is not in a HOA, we use the exact same equipment as we design, test, and recommend for those in a restricted environment.

The smiley ham icon was developed with headphones, mic, and antenna to end each article.

## Biographical Sketch

**Dr. Marcus O. Durham** is a Research Scientist and active Amateur Extra. His career spans industry, academia, and entrepreneurship. He and Rosemary live on a fabulous ranch, which hosts the company's research science lab. He is Professor Emeritus of Electrical Engineering. His education includes a PhD in Engineering. Then he earned a second PhD in Theology with a heavy dose of history and archaeology.

**Rosemary Durham** is an active General amateur operator. Her career includes business owner, ranch operator, and grandmother. She is a Certified Fire Investigator, Certified Vehicle Fire Investigator, and Certified Color Analyst.

Dr. Marc and Rosemary have written 25 books. He has published over 200 peer-reviewed engineering papers and articles. They co-author a weekly history column for the newspaper. They co-author a weekly article on amateur for their local organization. This is a compilation of some of those articles.

They know how to **do**, **teach**, and **write** so everyone, regardless of background, can experience amateur (ham) radio.

Ham (Amateur) Radio

# Evergreen Book

*Establish reliable, lowest technical common denominator communications,  
locally & regionally, in a HOA*

with over 300 illustrations

Dr. Marcus O. Durham, Ph.D., Th.D.  
Amateur Extra

Rosemary Durham  
Amateur General

Theway Labs  
Bixby, OK

