

Thyristor Theory and Application

Clay Laster

Explore the potential offered by solid-state thyristors in applications ranging from living room light dimmers to robot control in automated manufacturing!

Silicon controlled rectifiers, triacs, diacs, unijunction transistors . . . all are members of the amazing family of solid-state devices known as thyristors . . . all are invaluable assets to the technician, hobbyist, or experimenter involved with the design, installation, or maintenance of electronic power equipment.

Now, this excellent new sourcebook puts the full power of thyristor technology at your fingertips and shows how you can put these devices to practical, productive use in your own projects and experiments! Including enough theory to make thyristor technology easily understandable, author Clay Laster emphasizes hands-on techniques to demonstrate the versatility of the thyristor family of devices. He also includes numerous experiments to demonstrate and give you hands-on knowledge of thyristor functions.

There's a detailed look at operational theory, specifications, applications, and circuit designs for all current types of thyristors—silicon-controlled rectifiers or SCRs (the most commonly used thyristor), triode ac semiconductors (Triacs), silicon controlled switches (SCSs), Shockley diodes, and others.

You'll cover everything from the construction and manufacturing processes used for each thyristor type and how these devices are used in power switching as an inexpensive replacement for costly high-current-draw relays . . . to the planning of a thyristor control system and the use of light sensitive thyristors and optical isolators. Of particular interest, is the extensive coverage given to state-of-the-art technology related to power control and switching systems, and the application of thyristor devices in automated systems and robotics.

An invaluable mini-course in thyristor use and technology, this is also a book that will get you started in the actual use of these devices for your own practical and experimental purposes!

Clay Laster has been an electronics professional for nearly 40 years and has experience in such fields as radar, communications, computers, and technical writing. He is an assistant professor at a major university.

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Thyristor Theory User Guide

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