

FEATURES

8 Helios: The Solar-Powered Plane

Last year, it set a new altitude record for winged aircraft. This month, it has its first commercial trials. Its fuel? . . . sunlight! – by Bob Young

80 Fuel Cells Explode!

Well, they don't literally explode but their numbers and types sure are. Here's all you need to know in this sequel to last month's article – by Gerry Nolan

PROJECTS TO BUILD

28 Remote Volume Control For Stereo Amplifiers

You can add a remote motorised volume control to just about any stereo amplifier. Here's how to do it – by John Clarke

54 The “Matchless” Metal Locator

It's cheap, it's easy to build and it could find a fortune – by Thomas Scarborough

62 Compact 0-80A Automotive Ammeter

The latest addition to our line-up of PIC-based automotive projects. Build it and keep tabs on your car's electrical system – by John Clarke

72 Constant High-Current Source

A companion project to last month's stepper motor controller, this simple high-current source can also charge batteries – by Ross Tester

COMPUTERS

16 Lock Out The Bad Guys With A Firewall

Don't get hacked while you're on the net. Here's three free firewalls to keep the cyber vandals out – by Greg Swain

SPECIAL COLUMNS

38 Serviceman's Log

This little “telly” came to town – by the TV Serviceman

76 Vintage Radio

The 1935 Tasma M290 console – by Rodney Champness