

FEATURES

8 Fuel Cells: The Quiet Emission-Free Power Source

You will be amazed at the developments that are happening with fuel cells, especially in transport. Your next car could have one as its power source – by Gerry Nolan

16 Shark Shield: Keeping The Man-eaters At Bay

You strap it on for surfing, snorkelling and diving and it keeps you safe from dangerous sharks – by Ross Tester

74 Wound Up About Energy

Freeplay: you wind it up to recharge your mobile phone's battery or to power a shortwave radio – by Gerry Nolan

PROJECTS TO BUILD

24 PIC-Controlled 32-LED Knightrider

A PIC processor simplifies the circuit and gives 12 different lighting patterns for the 32 LEDs. You can use it as a rear window brake light or as an eye-catching display – by John Clarke

32 The Battery Guardian

Don't get caught with a flat battery; this easy-to-build circuit cuts off the power to a 12V fridge or car stereo system if the battery voltage drops below a critical level – by John Clarke

53 Build A Stereo Headphone Amplifier

It's based on a single IC and can be used with the RIAA (turntable) preamp described in our March 2002 issue (or anything else) – by Ross Tester

58 Automatic Single-Channel Light Dimmer; Pt.2

Second (and final) article has all the construction and setup details – by John Clarke

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Use one of those surplus stepper motors with this cheap and easy-to-build controller – by Ross Tester

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Stubbornness or tenacity of purpose – by the TV Serviceman

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The AWA FS6 military transceiver – by Rodney Champness