9th Australian Conference on Optical Fibre Technology Wollongong, 2-6 December 1984



Proceeding were published by IREE, Sydney, NSW

ISBN: none

The Australian Optical Society (AOS) has digitised the contents/index pages of this conference*.

The conference volume contains the individual papers, and is held by one or more libraries in Australia; please refer to the website:

http://optics.org.au/ACOFT

Authors	Paper title	Page
D.B. Keck	Design of single mode fibers	
G.E. Rosman & P.V.H. Sabine	Prospect of very low-loss non-silica fibres	11
G. Nicholson & J.C. Campbell	Performance studies of heterodyne and homodyne optical fibre systems	12
J.C. Campbell	Mode partition noise in single mode optical fibre communication systems	13
J.L. Adams & T.D. Stephens	Error probability calculations for optical fibre systems	14
K.H. Whybird & M.J. Green	An optical fibre based PCM communication system for an AC electrified heavy haul railway	15
H. Murata & M. Ogai	Long term reliability of optical fibre cable	16
M. Mckiterick & N. Newhouse	Installation practices for long haul singe mode optical fibre cables	17
B.L. Board	Hydrogen emission performance of optical fibre cable	18
C. Pask	Introduction to non-linear optics	19
P.L. Chu & C. Desem	Effect of index profile on soliton propagation in fibre	20
G.O. Stone	Direct numerical modelling of perturbations in fibres with communication and sensor applications	21
K.S. Chiang	A new approximate method for the analysis of optical fibres	22
R.M. Howard, R.D. Jeffery & J.L. Hullett	Backscatter measurement system	23
RC. Hsieh	Assessing optical fibre splice loss with optical time domain reflectometer	24
P.J. Samson	Techniques for the measurement of the far-field pattern of single mode optical fibres	25
W.H. Steel	Measurement by interferometry	26
J. Horn	The contribution of chemistry to fibre optics technology	27
M.J. Millington & P.S. Chung	Post-baked ion-exchanged waveguides index profiling	28
M.S. Kwietniak & Y. Ito	Applications of mercury cadmium telluride (Hg _{1-x} Cd _x Te) in optical fibre communications	29



T. Ohshima	Characteristics of the fluorine added new type of fibres	30
F.A. Donaghy	Fibre fabrication in AWA	31
T. Whitbread, P. Allen & P.L.	Non-contact measurement of optical fibre tension	32
Chu		
R. Mavaddat	Microbend fibre sensor ray analysis	33
M.A. Callaghan	Experimental investigation of a resonant multimode fibre	34
	optic microbend transducer	
M.W. Austin & P.C. Kemeny	A novel technique for the measurement of semiconductor	35
	optical waveguide loss	
E. Stumpf & L.H. Cahill	Improvements to the modulation properties of semiconductor	36
	lasers	
W.J. Stewart	Gigabit communications components	37
E. Johansen	Devices for heterodyne communication systems	38
T.D. Stephens & S. Rockliff	Electronic circuitry for Gbit/s optical fibre communication	39
	systems	
S.O. Martin, R.E. Jones, P.	An optical fibre magnetic field sensor	40
Extance & R. Pratt		
A.H. Mabbitt	LEDs and photodiode based components for transmission and	41
	LAN application	
J.L. Hullett	Optical integrated communication networks	42
R.C. Halgren	Data powered optical fibre modem	43
S.C. Rashleigh	Polarization effects in birefringent fibres	45
A. Ankiewicz, M. Hall, J.D.	Single-mode optical couplers	46
Love & C. Pask		
A.H. Snyder & A.J. Stevenson	Birefringent couplers	47
G. Pacey & K. Panchimatia	Practical application of single mode fusion splicing	
D.R. Nicol	Review of OTC plans for optical fibre communications	
A. Dubberley	Developing a digital communications network	48
J. Wise	Industrial applications of optical fibres	49

^{*}AOS provides this document as a service to the community, but accepts no responsibility for any errors it might contain.