

## 参考文献

### 参考文献

### 参考文献

1. Born M, Wolf E. Principle of Optics, 6<sup>th</sup> ed. New York : Pergamon, 1986
2. Delisle C, Cielo P. Application de la modulation spectrale a la transmission de l'information. *Can.J.Phys.*, 53, 1047~1053, 1975
3. Delisle C, Cielo P. Multiplexing in optical communications by interferometry with a large path length difference in white light. *Can.J.Phys.*, 54, 2322~2331, 1976
4. Al-Chalabi S A, Chlshaw B, David D E N. Partially coherent sources in interferometric sensors. Proc. 1st International Conference on Optical Fiber sensors, London, 132~135, 1983
5. Bosselmann T, Ulrich R. High accuracy position sensing with fiber coupled white light interferometers. Proc. 2nd International Conference on Optical Fiber Sensors, Berlin: VBE. 361~364, 1984
6. Boheim G. Fiber linked interferometric pressure sensor. *Rev.Sci.Instrum.*, 58, 1655~1659, 1987
7. Velluet M T, Graindorge P, Arditty H J. Fiber optic pressure sensor using white light interferometry. *Proc.SPIE*, 838, 78~83, 1987
8. Trouchet D, Laloux B, Graindorge P. Prototype industrial multi parameter FO sensor using white light interferometry, Proc. 6<sup>th</sup> International Conference on Optical Fiber Sensors, Paris, 227~233, 1989
9. Boheim G. Fiber optic thermometer using semiconductor etalon sensor. *Electron.Lett.*, 22, 238~239, 1986
10. Harl J C, Saaski E W, Mitchell G L. Fiber optic temperature sensor using spectral modulation. *Proc. SPIE*, 838, 257~261, 1987
11. Kersey A D, Dandridge A. Dual wavelength approach to interferometric sensing. *Proc.SPIE*, 798, 176~181, 1987
12. Farahi F, Newson T P, Jones J D C, et al., Coherence multiplexing of remote fiber Fabry-Perot sensing system, *Opt.Commun.*, 65, 319~321, 1988
13. Gusmeroli V, Vavassori P, Martinelli M. A coherence multiplexed quasi-distributed polarimetric sensor suitable for structural monitoring, Proc. 6<sup>th</sup> International Conference on Optical Fiber Sensors, Paris, 513~518, 1989
14. Kotrotsios G, Parriaux. White light interferometry for distributed sensing on dual mode fibers monitoring, Proc. 6<sup>th</sup> International Conference on Optical Fiber Sensors, Paris, 568~574, 1989
15. Takada K, Yokohama I, Chida K, et al. New measurement system for fault location in optical waveguide devices based on an interferometric technique, *Appl.Opt.*, 26, 1603~1606, 1987
16. Youngquist R C, Carr S, Davies D N. Optical coherence domain reflectometry: a new optical evaluation technique, *Opt.Lett.*, 12, 158~160, 1987
17. Danielson B L, Whittenberg C D. Guided wave reflectometry with micrometer resolution, *Appl.Opt.*, 26, 2836~2842, 1987
18. Sorin W V, Baney D M. A simple intensity noise reduction technique for optical low coherence reflectometry, *IEEE Photonics Technology Letters*, 4, 1404~1406, 1992
19. Baney D M, Sorin W V. Extended range optical low coherence reflectometry using a recirculating delay technique, *IEEE Photonics Technology Letters*, 5, 1109~1112, 1993
20. Baney D M, Sorin W V. Optical low coherence reflectometry with range extension > 150m, *Electronics Letters*, 31, 1775~1776, 1995
21. Ballif J, Gianotti R, Walti R, Salathe R P. Rapid and scalable scans at 21 m/s in optical low coherence reflectometry, *Opt.Lett.*, 22, 757~759, 1997
22. Lindgren F, Gianotti R, Walti R, et al., 78 dB shot noise limited optical low coherence reflectometry at 42m/s scan speed, *IEEE Photonics Letters*, 9, 1613~1615, 1997
23. Szydlo J, Bleuler H, Walti R, et al. High speed measurements in optical low

- coherence reflectometry, Meas. Sci. Technol., 9, 1159~1162, 1998
24. Kock A, Ulrich R, Displacement sensor with electronically scanned white light interferometer, Proc. SPIE, 1267, Fiber Optic Sensors IV, 128~133, 1990
  25. Chen S, Meggitt B T, Rogers A J. Electronically scanned white light interferometry with enhanced dynamic range, Electron. Lett., 26, 1663~1665, 1990
  26. Chen S, Meggitt B T, Rogers A J. An electronically scanned white light Young's interferometer, Optics Lett., 16, 761~763, 1991
  27. Chen S, Palmer A W, Grattan K T V, et al. Study of electronically scanned optical fiber Fizeau interferometer, Electron. Lett., 27, 1032~1034, 1991
  28. Chen S, Grattan K T V, Palmer A W, et al., Digital processing techniques for electronically scanned optical fiber white light interferometry, Appl. Opt., 31, 6003~0010, 1992
  29. Chen S, Grattan K T V, Meggitt B T, et al. Instantaneous fringe order identification using dual broad source with widely spaced wavelengths, Electron. Lett., 29, 334~335, 1993
  30. Rao Y J, Ning Y N, Jackson D A. Synthesized source for white light sensing systems, Opt. Lett., 18, 462~464, 1993
  31. Wang D N, Ning Y N, Grattan K T V, et al. Three wavelength combination source for white light interferometry, IEEE Photonol. Technol. Lett., 5, 1350~1352, 1993
  32. Yuan L B. White light interferometric fiber optic strain sensor with three peak wavelength broadband LED source, Appl. Opt., 36, 6246~6250, 1997
  33. Wang Q, Ning Y N, Palmer A W, et al. Central fringe identification in a white light interferometer using a multi stage squaring signal processing scheme, Opt. Commun., 117, 241~244, 1995
  34. Brooks J L, Wentworth R H, Youngquist R C, et al. Coherence multiplexing of fiber optic interferometric sensors, J. Lightwave Technology, LT3, 1062~1072, 1985
  35. Gsmeroli V, Vavassori P, Martinelli M. A coherence multiplexed quasi-distributed polarimetric sensor suitable for structure monitoring, Proc. Phys., 44, 513, 1989
  36. Lecot C, Guerin J J, Lequime M. White light fiber optic sensor network for the thermal monitoring of the stator in a nuclear power plant alternator sensors, Proc. 9<sup>th</sup> International Conference on Optical Fiber Sensors, Florence, Italy, 271~274, 1993
  37. Rao Y J, Jackson D A. A prototype multiplexing system for use with a large number of fiber optic based extrinsic Fabry Perot sensors exploiting low coherence interrogation, Proc. SPIE, 2507, 90~98, 1995
  38. Sorin W V, Baney D M. Multiplexed sensing using optical low coherence reflectometry, IEEE Photonics Technology Letters, 7, 917~919, 1995
  39. Inaudi D, Vurpillot S, Loret S. In line coherence multiplexing of displacement sensors, a fiber optic extensometer, SPIE, 2718, 251~257, 1996
  40. Yuan L B, Ansari F. White light interferometric fiber optic distribution strain sensing system, Sensors and Actuators: A. Physical, 63, 177~181, 1997
  41. Yuan L B, Zhou L M.  $1 \times N$  star coupler as distributed fiber optic strain sensor using in white light interferometer, Applied Optics, 37, 4168~4172, 1998
  42. Yuan L B, Zhou L M, Jin W. Quasi-distributed strain sensing with white light interferometry: a novel approach, Optics Letters, 25, 1074~1076, 2000
  43. Inaudi D, Elamari A, Pflug L, et al. Low coherence deformation sensors for monitoring of civil engineering structures, Sensors and Actuators A, 44, 125~130, 1994
  44. Yuan L B, Zhou L M, Wu J S. Fiber optic Temperature Sensor with duplex Michelson interferometric technique, Sensors and Actuators: A, Physical, 86, 2~7, 2000
  45. Yuan L B, Zhou L M, Jin W. Recent progress of white light interferometric fiber optic strain sensing techniques, Review of Scientific Instruments, 71, 4648~4654, 2000
  46. Yuan L B, Li Q B, Liang Y J, et al. Fiber optic 2D strain sensor for concrete specimen, Sensors and Actuators A, 94, 25~31, 2001
  47. Udd E, et al. Fiber Optic Smart Structures. New York : Wiley, 1995
  48. Measures R M. Smart composite structures with embedded sensors, J. Composites Eng., 2, 597~618, 1992
  49. Yuan L B. Effect of temperature and strain on fiber optic refractive index, Acta Optica Sinica, 17, 1713~1717, 1997

50. Nye S F. Physical Properties of Crystals.Oxford Press, London ,235~259,1954
51. Butter C D, Hocker G P. Fiber optic strain gauge, Applied Optics,17,2867~2869,1978
52. Sirkis J S. A unified approach to phase strain temperature models for smart structure interferometric optical fiber sensors: Part I development,Opt.Engineering,32,752~763,1993
53. Beheim G. Fiber optic thermometer using semiconductor etalon,Electron.Lett.,22,238~239,1986
54. Gerges A S, Farahi F,Newson T P,et al. Fiber-optic interferometric sensor utilizing low coherence length source resolution enhancement,Electron.Lett.,24,472~474,1988
55. Li T, Wang A, Murphy K, et al. White light scanning fiber Michelson interferometer for absolute position distance measurement,Opt.Lett.,20,785~787,1995
56. Gerges A S, Newson T P, Jackson D A. Coherence tuned fiber optic sensing system,with self initialization,Based on multimode laser diode,Appl.Opt.,29,4473~4480,1990
57. Yuan L B.Optical path automatic compensation low coherence interferometric fiber optic temperature sensor,Optics & Laser Technology,30,33~38,1998
58. Sciammarella C A.The moiré method A review,Exp.Mech.,22,418,1982
59. Reid G T.Moiré fringes in metrology,Optics and Lasers in Engineering,5,63,1984
60. Sciammarella C A.Use of gratings in strain analysis,J.Phys.E.,5,833,1972
61. Takasaki H.Moiré topography from its birth to practical application,Optics and Lasers in Engineering,3,3,1982
62. Gasvik K J.Moiré technique by means of digital image processing,Appl.Opt.,22,3543,1983
63. Lehmann R,Wierner A.Untersuchungen zur Theorie der Doppelraster als Mittel zur Messanzeigen,Feingerate Technik,2,pp.199~205,1953
64. Pirard A.Consideration sur la methode du moiré en photoelasticite,Analyse des Contraintes,Mem.GAMAC,5,pp.1~24,1960
65. Hocker G B.Fiber optic sensing of pressure and temperature,Appl.Opt.,18(9),1445,1978
66. Libo Yuan and Limin Zhou,Fiber optic Moiré Interference principle,Optical Fiber Technology,Vol.4,No.2,224~232,1998