

Memoirs of James Robert Hope-Scott, of Abbotsford, D.C.L., Q.C., Late Fellow of Merton College, Oxford With Selections from His Correspondence Volume



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MEMOIRS OF JAMES ROBERT HOPE-SCOTT, OF ABBOTSFORD, D.C.L., Q.C., LATE FELLOW OF MERTON COLLEGE, OXFORD WITH SELECTIONS FROM HIS CORRESPONDENCE VOLUME



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Original publisher: Adelphi, MD : Army Research Laboratory, 2009 OCLC Number: (OCoLC)495785618 Subject: Lasers -- Research. Excerpt: . . . account the collection efficiency and the fact that light is collected from only one facet. At 30 K the measured RIN monotonically decreases from a value of - 105 dB at threshold to around - 162 dB for I I 5, in good qualitative agreement with the theoretical results (18) shown in th 2 figure 4. Over the range 1 I I 3, the measured 30 K RIN approximately shows a 1 P th dependence in agreement with theoretical and experimental results (19, 25). Figure 4 shows that at 100 K, the measured RIN decreases from - 112 dB at threshold to - 152 dB at I I 1. 6, and th then increases to - 134 dB at I I 2. 9. The observed increase in the RIN, with increasing current th over the range 1. 6 I I 3 at 100 K, disagrees with theoretical prediction. The mechanism for th the observed increase in the IC laser 100 K RIN is not known, but the data clearly indicates that the increased cavity temperature induces an increase in photon fluctuations. For 1 I I 2, the th observed IC laser RIN at 30 K and 100 K is about 15 dB smaller than the QC laser RIN (25). For I I 4, the 30 K IC laser RIN is comparable to the 88 K QC laser RIN, while the 100 K IC laser th RIN is about 15 dB higher than the 88 K QC laser RIN. At 30 K, figure 5 shows that the laser exhibits a white...

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