

**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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
*(Rene Olson)*

## 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



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 115, in good qualitative agreement with the theoretical results ( 18 ) shown in th 2 figure 4. Over the range 113, 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 11.6, and th then increases to - 134 dB at 112.9. The observed increase in the RIN, with increasing current th over the range 1.6113 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 112, the th observed IC laser RIN at 30 K and 100 K is about 15 dB smaller than the QC laser RIN ( 25 ). For 114, 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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