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

By-

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 II5, in good qualitative agreement with the theoretical results (18) shown in th 2 figure 4. Over the range 1 II3, 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 II1. 6, and th then increases to - 134 dB at II2. 9. The observed increase in the RIN, with increasing current th over the range 1.6 II3 at 100 K, disagrees with theoretical prediction. The mechanism

for th the observed increase in the IC laser 100 K RIN...

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