

## The Professor at the Breakfast-Table, with an Intr. by W.R. Nicoll



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## THE PROFESSOR AT THE BREAKFAST-TABLE, WITH AN INTR. BY W.R. NICOLL



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 108 pages. Original publisher: Washington, D. C. : National Aeronautics and Space Administration, Office of Management, Scientific and Technical Information Division ; Springfield, Va. : For sale by the National Technical Information Service, 1990. OCLC Number: (OCoLC)34370600 Subject: Solid-state lasers -- Thermal properties -- Computer simulation. Excerpt: . . . rod. Collectively, the above factors of temperature variation of the refractive index, induced birefringence, and bulge are called thermal lensing. Thermal lensing is the defocusing and distortion of a laser beam transmitted through a material medium, due to the non-uniform heating of the material. 4 In this thesis, using the Temperature Distribution Model, thermal lensing effects will be analyzed to develop a Thermal Lensing Model. The Thermal Lensing Model will be employed to predict changes in the focal length and resultant distortions due to the time dependent temperature variations of the refractive index for two common laser materials that are under evaluation. These materials are Neodymium doped Yttrium Aluminum Garnet ( YAG ) ( Y3AL5O12 ) and Titanium doped Aluminum Oxide ( Sapphire ) ( AL2O3 ). From this point onward, these two materials will be called Nd: YAG and Ti: AL2O3 respectively. They will be evaluated for various pumping ( side and end ) and cooling schemes. The induced birefringence and bulge caused by stress in the laser material will be discussed. However, these factors will not be implemented in the first version of the Thermal Lensing Model as they are minor in nature. In the next chapter, the Temperature Distribution Model will be discussed. Its from this models output that the time dependent temperature profiles are derived. These profiles serve as input to the Thermal Lensing Model. 3 This item ships from La Vergne,TN. Paperback.



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