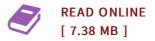# Das Mikroskop, Seine Wissenschaftlichen Grundlagen Und Seine Anwendung

By Sung Rak Choi Noel N Nemeth John P

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. OCLC Number: 54809334 Excerpt: . . . where A and n are SCG parameters and are different from those used in the power-law formulation. Unlike the power-law crack-velocity formulation, none of the above exponential crack-velocity forms yield simple, analytical expressions for either the resulting strength as a function of applied stress rate under constant stress rate loading or the resulting time to failure as a function of applied stress in either constant stress or cyclic stress loading. Several attempts have been made under constant stress rate and constant stress loading to obtain corresponding lifetime expressions through numerical integration incor-porating linear (refs. 12 and 13) or nonlinear (ref. 14) regression analysis. However, this approach still involves complexity in regression technique as compared with the simple least-squares approach routinely used in the power-law formulation. Slow-crack-growth analyses of three load configurations of constant stress rate, constant stress, and cyclic stress were made in part 1 of this report (ref. 3) to obtain simpler formulations through numerical approaches. Little difference in SCG formulation existed among equations (4) through (6), and...

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