



## Stress Analysis of Bonded Assemblies: Applications in Microelectronics

By Shilak Shakya

VDM Verlag. Paperback. Condition: New. 256 pages. Dimensions: 8.7in. x 5.9in. x 0.6in. Four analytical models are developed for predicting the maximum shearing displacement in a bonded assembly under global thermal mismatch loading. Analytical model includes: i) elastic analysis, ii) elasto-plastic analysis, iii) viscoelastic analysis, and iv) viscoelastic-plastic analysis. All results have been derived as closed-form correction factors to be applied to the easily calculated unconstrained shear displacement to obtain the maximum shear displacement. The motivation for determining the maximum shear displacement is to compute the maximum shear strain, which is then used to estimate the cycles-to-failure by means of a fatigue law. The analytical relations derived are simple, easy-to-use, and helpful for studying the interaction among the various design parameters. The analytical relations are in good agreement with existing experimental and numerical results. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



**READ ONLINE**  
[ 2.94 MB ]

### Reviews

*Extensive information for book fans. It is written in basic words and never hard to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.*

*-- Otis Wisoky*

*This publication is great. It is full of wisdom and knowledge. You will not really feel monotony at any time of the time (that's what catalogs are for relating to when you ask me).*

*-- Dr. Everett Dicki DDS*

## See Also



### [Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large](#)

Madelyn D R Books. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in.This book is about my cousin, Billy a guy who taught me a lot over the years and who can teach you a lot. Everyone who...



### [DK Readers Invaders From Outer Space Level 3 Reading Alone](#)

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.9in. x 5.9in. x 0.1in.Are aliens from other planets visiting Earth Read these amazing stories of alien encounters -- and make up your own mind! The 48-page Level 3 books, designed for...



### [Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values](#)

Summer Fit Learning. Paperback. Book Condition: New. Paperback. 160 pages. Dimensions: 10.6in. x 8.3in. x 0.5in.Summer Fit Activity Books move summer learning beyond academics to also prepare children physically and socially for the grade ahead. Academic exercises are based on Common Core...



### [The Day I Forgot to Pray](#)

Tate Publishing. Paperback. Book Condition: New. Paperback. 28 pages. Dimensions: 8.7in. x 5.8in. x 0.3in.Alexis is an ordinary five-year-old who likes to run and play in the sandbox. On her first day of Kindergarten, she makes her first school-aged friend, Elizabeth, and...



### [DK Readers Animal Hospital Level 2 Beginning to Read Alone](#)

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.9in. x 5.8in. x 0.1in.This Level 2 book is appropriate for children who are beginning to read alone. When Jack and Luke take an injured duck to the vet, it is just...



### [DK Readers Day at Greenhill Farm Level 1 Beginning to Read](#)

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in.This Level 1 book is appropriate for children who are just beginning to read. When the rooster crows, Greenhill Farm springs to life. Join the ducklings, cows, and...