

Erratum: “Effect of Strain Gage Length When Determining Residual Stress by Slitting” [Journal of Engineering Materials and Technology, 2007, 129(1), pp. 143–150]

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Corrections were made to Table 1 where the number of significant digits therein were increased to twelve, which is necessary to obtain accurate numerical results (tables available for download from <http://mae.ucdavis.edu/~mhil/jemt129table.html>).

Table 1 Compliance polynomial fit coefficients, b_{jk} , for $l/t=$ (a) 0.005 and (b) 0.100

(a) $l/t = 0.005$

k	Legendre Order, j						
	2	3	4	5	6	7	
1	1.74920284585E-02	-1.76048323474E-02	1.76246520378E-02	-1.78119306494E-02	1.79122265713E-02	-1.77148735741E-02	
2	-1.00024701861E+01	1.00825827872E+01	-1.01705884313E+01	1.03048679151E+01	-1.04484607744E+01	1.05699329871E+01	
3	3.76070795223E+01	-6.27499948477E+01	9.56259036454E+01	-1.38265950985E+02	1.89178372041E+02	-2.47125270825E+02	
4	-8.11214247377E+01	1.92504672254E+02	-3.87457302995E+02	7.65131054485E+02	-1.35934336739E+03	2.22302568308E+03	
5	-1.92570363355E+02	-2.65636136667E+02	8.95297659854E+02	-2.65513417656E+03	5.81379547945E+03	-1.11662032238E+04	
6	3.01284767419E+03	-1.16989737424E+03	-1.41018002022E+02	6.78060086251E+03	-1.82002320601E+04	3.76094739740E+04	
7	-1.61978375624E+04	9.53247791397E+03	-9.17595921996E+03	-1.25923814782E+04	4.54100664149E+04	-9.25809494100E+04	
8	5.47512704236E+04	-3.49405008918E+04	4.39091031650E+04	1.49931788868E+04	-9.12438563921E+04	1.67789256952E+05	
9	-1.27899683770E+05	8.24066102237E+04	-1.19130043518E+05	-6.24376152016E+03	1.46406296336E+05	-2.12242275606E+05	
10	2.11852485986E+05	-1.33933776117E+05	2.16034111854E+05	-1.36814781878E+04	-1.85568657320E+05	1.61350332821E+05	
11	-2.48630598542E+05	1.51781449398E+05	-2.70754803690E+05	3.09912096678E+04	1.82202877177E+05	-2.65689400032E+04	
12	2.02332803604E+05	-1.17892525541E+05	2.32353272451E+05	-3.15851817532E+04	-1.33737807017E+05	-8.52055852883E+04	
13	-1.08633555227E+05	5.97960233302E+04	-1.30660194667E+05	1.85796615854E+04	6.89355941884E+04	9.57580590856E+04	
14	3.46166481643E+04	-1.78127884576E+04	4.33717701582E+04	-6.09483455871E+03	-2.21742504668E+04	-4.52671205082E+04	
15	-4.95931190481E+03	2.35775319560E+03	-6.45453424370E+03	8.70000823372E+02	3.33580658104E+03	8.53653024648E+03	

Table 1a continuation

k	Legendre Order, j				
	8	9	10	11	12
1	1.82386422830E-02	-1.63163346151E-02	1.70724607622E-02	-8.67649865908E-03	5.08344443532E-03
2	-1.08186137074E+01	1.07258927931E+01	-1.10377847343E+01	9.99579242549E-00	-9.60609931493E-00
3	3.19538559046E+02	-3.84232960388E+02	4.76693089086E+02	-5.12040994895E+02	5.83036222972E+02
4	-3.62182724246E+03	5.15846881623E+03	-7.75494402599E+03	9.58268076464E+03	-1.28070548876E+04
5	2.27434939303E+04	-3.66310821491E+04	6.67681259729E+04	-9.22529910883E+04	1.44199961135E+05
6	-9.56282907423E+04	1.61781907100E+05	-3.57581320773E+05	5.32771550901E+05	-9.71363371588E+05
7	3.00907751841E+05	-4.87603988667E+05	1.31059069514E+06	-2.01061762397E+06	4.26541241877E+06
8	-7.42640800315E+05	1.05428479824E+06	-3.48387824444E+06	5.22295283024E+06	-1.28591930512E+07
9	1.43756989764E+06	-1.65869134717E+06	6.91468880718E+06	-9.62619637206E+06	2.74539130498E+07
10	-2.13740189314E+06	1.86499721067E+06	-1.02924590545E+07	1.27470381193E+07	-4.21410213286E+07
11	2.37212609807E+06	-1.42153644651E+06	1.13119617869E+07	-1.20587277140E+07	4.64942080480E+07
12	-1.89103402824E+06	6.50519295660E+05	-8.87593354791E+06	7.92140779791E+06	-3.61683043366E+07
13	1.01926369026E+06	-1.13523201430E+05	4.69007581679E+06	-3.39559099091E+06	1.89001494716E+07
14	-3.31770177023E+05	-3.23796567776E+04	-1.49334798024E+06	8.36385621234E+05	-5.96525129866E+06
15	4.91763566552E+04	1.39965079103E+04	2.16403069827E+05	-8.62459057514E+04	8.59482681847E+05

(b) $l/t = 0.100$

k	Legendre Order, j						
	2	3	4	5	6	7	
1	1.74406595812E-02	-1.75377226744E-02	1.74484531896E-02	-1.80439606541E-02	1.72558996489E-02	-1.85405180493E-02	
2	-9.96484417712E+00	1.00424450136E+01	-1.01140163189E+01	1.03077935775E+01	-1.03207167473E+01	1.06583793683E+01	
3	3.75523756076E+01	-6.24928203407E+01	9.44651812255E+01	-1.39791627594E+02	1.84319984245E+02	-2.52302409726E+02	
4	-8.34802894281E+01	1.92119471539E+02	-3.68535602423E+02	8.09427242811E+02	-1.26120486329E+03	2.35309608362E+03	
5	-1.54900458131E+02	-2.73559413314E+02	6.70312351355E+02	-3.25803797461E+03	4.60310126305E+03	-1.29033448920E+04	
6	2.69944654084E+03	-1.07528635732E+03	1.64290473621E+03	-1.17255739665E+04	8.59308507493E+03	-5.17815549274E+04	
7	-1.45169054792E+04	8.94701670840E+03	-1.87449564147E+04	-3.93120838221E+04	5.75047128032E+03	-1.68792083657E+05	
8	4.85740775325E+04	-3.25615805223E+04	7.95361890518E+04	-1.14357315415E+05	9.74224701224E+04	4.49653468073E+05	
9	-1.11935365378E+05	7.56895782808E+04	-2.12818304036E+05	-2.66389892594E+05	-3.44563307084E+05	-9.45628952995E+05	
10	1.82583658712E+05	-1.20532011648E+05	3.91138500633E+05	4.69676943203E+05	7.21982996657E+05	1.51465427587E+06	
11	-2.1078356594E+05	1.32947701992E+05	-5.01844881867E+05	-6.02630150034E+05	-1.00174244817E+06	-1.78728626985E+06	
12	1.68602168433E+05	-9.96555882211E+04	4.42763795581E+05	5.41126115463E+05	9.31263666039E+05	1.49332836138E+06	
13	-8.89250243988E+04	4.82154495617E+04	-2.56340841242E+05	-3.20986629988E+05	-5.59407734489E+05	-8.31951411184E+05	
14	2.78246531100E+04	-1.34721708396E+04	8.77422497521E+04	1.12742166401E+05	1.96592920363E+05	2.76314916463E+05	
15	-3.91337725572E+03	1.62982722382E+03	-1.34617187553E+04	-1.77320674281E+04	-3.07216192900E+04	-4.12824796691E+04	

Table 1b continuation

k	Legendre Order, j				
	8	9	10	11	12
1	1.70142310911E-02	-1.74790985439E-02	1.60621187354E-02	-8.79598343314E-03	6.50076458742E-03
2	-1.06069753498E+01	1.08613727671E+01	-1.08573202114E+01	9.97558109140E+00	-9.78198885736E+00
3	3.10279731058E+02	-3.91062329575E+02	4.68409748364E+02	-5.10741774452E+02	5.91104451894E+02
4	-3.42743247220E+03	5.32461665106E+03	-7.58203153441E+03	9.55609611739E+03	-1.29965628887E+04
5	2.03545253199E+04	-3.88535357887E+04	6.47137502622E+04	-9.19680480792E+04	1.46789287437E+05
6	-7.68766262446E+04	1.79969471841E+05	-3.42093261711E+05	5.30646521196E+05	-9.93587723114E+05
7	2.02075147413E+05	-5.85286754249E+05	1.23204789842E+06	-1.99915993230E+06	4.39171798015E+06
8	-3.81606666611E+05	1.41374101193E+06	-3.20707882829E+06	5.17629122221E+06	-1.33516773072E+07
9	5.06582505686E+05	-2.58677501039E+06	6.22524430583E+06	-9.48528146316E+06	2.8799958504E+07
10	-4.32149906897E+05	3.56101539699E+06	-9.07323531569E+06	1.24392108651E+07	-4.47426180855E+07
11	1.68363030994E+05	-3.60307866729E+06	9.79348732507E+06	-1.15837132525E+07	5.00327282003E+07
12	-7.18990061559E+04	2.58097449069E+06	-7.57634377695E+06	7.41908510615E+06	-3.94818433422E+07
13	-1.26801522602E+05	-1.23147735654E+06	3.96400978949E+06	-3.04999480951E+06	2.09340082753E+07
14	6.27924226857E+04	3.48791067871E+05	-1.25546691254E+06	6.97176004747E+05	-6.70193210788E+06
15	-1.15046012960E+04	-4.39647484446E+04	1.81839420578E+05	-6.13476202597E+04	9.78834249488E+05