ERRATA TO The Joy of T_EX PRIOR TO A_MS - T_EX 2.0

This list of corrections to The Joy of T_EX , 1986 edition, includes all known corrections that preceded the release of $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ - T_EX Version 2.0. Reprints with corrections may already incorporate some or all of these changes.

The printing date of each copy of *The Joy of T_EX* is identified on the reverse of the title page. The list below will permit you to determine which corrections have not already been incorporated in your copy of *The Joy of T_EX*.

First printing, 1986 all changes

Second printing with corrections, 1986 changes after 11/25/86 Third printing with corrections, 1987 changes after 5/12/87

For differences between earlier versions of $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -TEX and Version 2.0, see the User's Guide to $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -TEX 2.0. The second edition of The Joy of TEX, 1990, contains all changes in this list as well as new material for $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -TEX 2.0.

(This errata list was last updated 15 October 89.)

Page 12, line 12 ((11/11)	1/86)
--------------------	---------	-------

What output is produced by $\sl_1.00$ and by $\sl_1.00$?

will be some surprises in it—so you should go pick it up as soon as possible.

uptight when you encounter an error message, because T_EX can always be coaxed

Page 39, line 4
$$(10/15/89)$$

words as evenly as possible. But everyone knows that such bland perfection isn't

Page 39, line
$$-4$$
 (12/12/89)

allowed here also, to accommodate threesomes, foursomes, and even more perverse

Page 44, line
$$-10$$
 (12/12/89)

their own papers might prefer to leave these details to someone else, and even

Page 81, line 13
$$(10/25/89)$$

But don't use \, before an expression like $\frac{dy}{dx}$ or before the dx in dy/dx.

Page 88, line
$$-5$$
 (5/11/87)

We derive the quadratic formula by "completing the square":

Typeset by $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -TEX

to the old style that they may be discomforted by the "improvements".

Page 99, lines 15–16 (8/6/86)

 $\scriptstyle \label{eq:lim} \$

 $\$ \varprojlim\

Page 108, line 11 (11/11/86)

 $&=(a+b)(a+b)^n=(a+b)$

Page 109, line 6 (12/12/89)

when tags are set on the right. What input do you think you should use?

Page 109, line -14 (10/15/89)

so that the =\bigl[is aligned with the invisible \qquad. Notice, again, that such

Page 113, line 1 (4/10/86)

And there's \bmatrix...\endbmatrix to get brackets \left[...\right] around

Page 127, line 11 (7/13/87)

If you're an experienced mathematical typist you've probably already begun to

Page 129, lines 14–15 (10/15/89)

with things like (x_1, \ldots, x_m) , (y_1, \ldots, y_{n+1}) as well. Explain how to define \vector so that we can type these as \vector xm\$ and \vector y{n+1}\$.

Page 129, last 3 lines (10/15/89)

In Exercise 19.20 we defined \vector so that \vector xn\ produces (x_1, \ldots, x_n) , etc. But perhaps you don't like this, perhaps you'd prefer to type \vector nx\, with the 'n' first, and the 'x' second. How can you arrange this?

Page 131, lines 10–11 (10/15/89)

How would you \define the control sequence \vector so that you type $\$ vector x,n. to get (x_1,\ldots,x_n) , and $\$ vector y,m+1. to get (y_1,\ldots,y_{m+1}) , etc.

Page 144, line 16 (10/15/89)

This command is "global"—it affects everything that follows, even if it is in-

Page 162, line -6 (5/11/87)

if you typed \footnote"" {...} then you would get no marker at all, just a note

Page 171, line -7 (10/15/89)

too much, and only \linebreak will force TFX to overcome its reluctance.

Page 176, line 4	(12/12/89)
about it, and an & is tolerated only in special situations. So you show	ıld remember
Page 179, line 4	(10/15/89)
change its position on the $8\frac{1}{2}$ by 11 sheet of paper. Typing	
Page 180, lines 5–6	(10/15/89)
$ef'(x) = \frac{2\sqrt{x}\sqrt{qquad}}{foldedtext}{foldedwidth{2in}{for some x in $(k, qquad)}}$	k+1)\$,
Page 181, line -4	(10/15/89)
should be included at the end of that displayed formula.	
Page 182, line -2	(12/12/89)
argument" feature of \roster (again compare with footnote).	If you type
Page 186, line 13	(10/15/89)
commands are "global"—they affect everything that follows even if u	sed in a group
Page 189, line 21	(12/12/89)
will first be divided into lines of a certain length (3 inches less that	an the width
Page 195, lines 4, 11	(7/13/87)
Change "In addition to" to "First we have".	
Page 195, line -1	(12/12/89)
in a bibliography''.	
Page 202, line -6	(12/12/89)
If 'etc.' were typed instead of 'etc\.' there would be a larger sp	ace after the
Page 208, line 12	(12/12/89)
it does in ordinary text.	
Page 210, line 4	(12/12/89)
you'll get the two equations $a + b = c$ and $A + B = C$ displaye	d separately.
Page 212, line 6	(12/12/89)
If you press $\langle \text{carriage-return} \rangle$, TEX will continue merrily, and you	will get a^{bc}
Page 218, line -6	(7/13/87)

Of course, you weren't supposed to anticipate such after-the-fact corrections.

Page 222, answer to 14.11 , line 1	(10/15/89)
We derive the quadratic formula by	
Page 229, answer to 15.19 , lines 2–3	(10/15/89)
<pre>\$\operatorname{\text{\sl S0}}(n)\$ \$\operatorname{\text{\bf S0}}(n)\$</pre>	SO(n) $\mathbf{SO}(n)$
Page 230, answer to 16.3 , lines 6–9	(10/25/89)
to suppress any extra space that TeX might put in. (A happens to work correctly, but\tag{\$****}\$\$ v rather than worrying about why this happens, just ty and\tag{\${*}{*}\$\$ to be on the safe side.	vould give the tag $(***)$; pe\tag{\${*}{*}\$\$
Page 230, answer to 16.4 , line 3	(7/13/87)
Q^1&=Q_1\bigg1\{\sum_k(-1)^k(PQ_1-I)^h	x\biggr\}
Page 230, answer to 16.4 , line 6	(10/25/89)
Q_1\tag 1{\${}_r\$}	
Page 231, answer to 16.6	(10/25/89)
<pre>Line 2:</pre>	
Page 233, answer to 17.4 , line 6	(5/13/86)
\dots, \$b_{3k}\$.}\endmultline	
Page 234, answer to 18.4	(5/13/86)
<pre>Line 6:</pre>	
Page 239, answer to 19.13	(10/15/89)
$\define\vector #1{(#1_1,\dots,#1_n)}$	
and then use $\ \ x etc. $	etor y\$ to get (y_1,\ldots,y_n) ,
Page 240, answer to 19.14	(10/15/89)

 $\alpha \$ and $\$

Page 240, answer to 19.15	(10/15/89)
19.15. You can get (x'_1, \ldots, x'_n) by typing \vec{x} ment is \vec{x} and \vec{x} and \vec{x} gives \vec{x} , etc. On the other ha formula (x_1', \ldots, x_n') using \vec{x}	x'}}\$; now the argund, you can't get the
Page 240, answer to 19.20	(10/15/89)
\define\vector#1#2{(#1_1,\dots,#1_{#2})}	
Page 242, answer to 19.23	(10/15/89)
\define\vector#1#2{(#2_1,\dots,#2_{#1})}	
Although #1 and #2 must appear in that order after the $\$ can appear in any order within the definition itself.	define\vector, they
Page 242, answer to 19.24	(10/15/89)
\define\vector#1,#2.{(#1_1,\dots,#1_{#2})}	}
Page 242, answer to 19.27 , line 1	(7/13/87)
19.27. This is a perfectly acceptable \define, but you a	re not defining a new
Page 251, line 1	(10/25/89)
is supplied as a synonym for \t hickspace. In plain, the	ne thick space \; can
Page 252, line 6	(11/11/86)
\$f''^2\$	
Page 261, after line 12	(6/22/87)
$-\mathrm{Add}$ \sim \eqsim	
Page 261, line 15	(6/22/87)
Change ≇ \napprox to ≇ \ncong	
Page 262, line 15	(11/14/86)
Change 3 \thorn to 3 \eth	
Page 264, line 1	(11/11/86)
$\mathbf{Appendix} \;\; \mathbf{G:} \; \{\mathbf{T_{\!E\!}X} \;\; \mathbf{Users}\}$	
Page 265 line 6	(11/11/86)

Page 265, line 6 (11/11/86)

you might want to look back at Appendix G. Perhaps someone in TUG has

Page 275, column 1 (11/14/86)

Add entry \eth (\eth) , 262

Page 279, column 1	(12/12/89)
$\lceil (\lesssim), 260 \rceil$	
Page 281, column 1	(6/22/86)
Remove entry for \napprox Add entry \ncong (≇), 261	
Page 284, column 1	(12/12/89)
$\setminus \texttt{Psi} \ (\Psi), 255$	
Page 288, column 2	(11/14/86)

Delete entry for \thorn