Hairer example 4

`ha-mo4`

February 24, 1997

Variables: $t\,;a\,;b\,;c\,;d\,;e\,;f\,;g\,;h\,;i\,;j\,;k\,;l\,;m\,;n\,;o\,;p\,;q\,;r\,;s$

Equations:

$af + bg + ch + di + ej - 1/2;$
$a^2f + b^2g + c^2h + d^2i + e^2j - 1/3;$
$tdj + agk + ahl + bhm + ain + bio + cip + ajq + bjr + cjs - 1/6;$
$a^3f + b^3g + c^3h + d^3i + e^3j - 1/4;$
$tdej + abgk + achl + bchm + adin + bdio + cdip + aejq + bejr + cejs - 1/8;$
$td^2j + a^2gk + a^2hl + b^2hm + a^2in + b^2io + c^2ip + a^2jq + b^2jr + c^2js - 1/12;$
$ahkm + tajn + tbjo + aiko + tcjp + ailp + bimp + ajkr + ajls + bjms - 1/24;$
$a^4f + b^4g + c^4h + d^4i + e^4j - 1/5;$
$tde^2j+ab^2gk+ac^2hl+bc^2hm+ad^2in+bd^2io+cd^2ip+ae^2jq+be^2jr+ce^2js-1/10;$
$td^2ej+a^2bgk+a^2chl+b^2chm+a^2din+b^2dio+c^2dip+a^2ejq+b^2ejr+c^2ejs-1/15;$
$achkm + taejn + tbejo + adiko + tcejp + adilp + bdimp + aejkr + aejls + bejms - 1/30;$
$t^2d^2j + a^2gk^2 + a^2hl^2 + 2abhlm + b^2hm^2 + a^2in^2 + 2abino + b^2io^2 + 2acinp + 2bciop + c^2ip^2 + 2tadjq + a^2jq^2 + 2tbdjr + 2abjqr + b^2jr^2 + 2tcdjs + 2acjqs + 2bcjrs + c^2js^2 - 1/20;$
$td^3j + a^3gk + a^3hl + b^3hm + a^3in + b^3io + c^3ip + a^3jq + b^3jr + c^3js - 1/20;$
$abhkm+tadjn+tbdjo+abiko+tcdjp+acilp+bcimp+abjkr+acjls+bcjms-1/40;$
$a^2hkm+ta^2jn+tb^2jo+a^2iko+tc^2jp+a^2ilp+b^2imp+a^2jkr+a^2jls+b^2jms-1/60;$
$tajko + tajlp + tbjmp + aikmp + ajkms - 1/20;$

as rectified by Moeller

References

[1] D. Bini and B. Mourrain. Polynomials test suite. 1996.