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glossary.tex | param.tex | nomencl.tex | bib.tex | discussion.tex | results.tex

---- XEmacs: *toc* (TOC) L<> I<> T<ALL> ----

```
% !TeX root = promotion_main.tex
%% chapter Glossary
\chapter{Glossary}
\label{Chap:Glossary}
In the literature it is sometimes difficult to figure out which definition or which
unit is used. Or at other times authors use different definitions for the same value,
one example is the \emph{theoretical cell voltage} $U_{theo}$, where three definitions are in
use. It is also unclear if the \emph{transfer coefficient} or \emph{symmetry factor} $\alpha$ of the
\emph{Butler-Volmer equation} is related to the oxidation (older German literature
like \cite{vetter1961}) or to the reduction (international literature). For other
symbols the units can differ: $[\mu]=$~J·mol\tss{-1} \cite{din__07,haman01} or
$[\mu]=$~J\cite{schmi01}. To avoid uncertainties some definitions are given here:


\begin{myglossary}\label{cha:glossary}
\item[\textbf{\textsf{Term}}]
    \textbf{\textsf{Explanation}}

 \item[Analytical model \index{Analytical model} \label{gl:Analytical_model}]
   There are three categories of fuel cell models \cite{cheddie_D_2005}:\newline{}
  \makebox[1.2em][l]{a)}{}\emph{Analytical models} work with many simplifying assumptions and
  no empirical fitting.\newline{}
  \makebox[1.2em][l]{b)}{}\emph{Semi-empirical models} combine theoretically derived
  differential and algebraic work with empirically fitted relations.\newline{}
  \makebox[1.2em][l]{c)}{}\emph{Mechanistic models} avoid empirically fitted
  relations\footnote{A pioneering work in the field of mechanistic PEM-modeling was published i
    1992 by \textsc{Bernardi} and \textsc{Verbrugge}\,\cite{Bernardi_D_M_1991,bernar1992}. Most
  of the recent works belong to the group of mechanistic modeling.}.
```

Raw-----XEmacs: glossary.tex (LaTeX/S Ref XS:tex/si PenDel Fill)----L3--C18--Top----------

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Latex

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