

leaves readers anticipating what values the authors will ultimately recommend for key quantities. Spoiler alert! For an aqueous solution, they recommend a surface potential of +0.13 V, and for a proton in water, an intrinsic semi-standard point-to-point solvation free energy of -265 kcal/mol.

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miscellaneous

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nuclear physics

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particle physics

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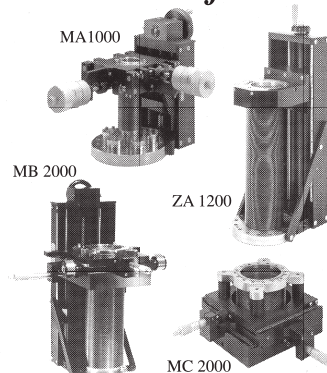
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