

## Comment on a paper by Hashimoto *et al* (2005)

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## COMMENT

**Comment on a paper by Hashimoto *et al* (2005)**Saralees Nadarajah<sup>1</sup> and Samuel Kotz<sup>2</sup><sup>1</sup> University of Nebraska, Lincoln, NE 68583, USA<sup>2</sup> George Washington University, Washington, DC 20052, USA

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The recent paper by Hashimoto *et al* [1] claims to have applied a new analytical concept to the kinetics of the shrinking process of poly-gels. In particular, the authors suggest a *new* distribution for the characteristic time. In the notation of the authors, it is given by

$$D(\tau) = \frac{\beta}{\tau_2} \left(\frac{\tau}{\tau_2}\right)^{\beta-1} \exp\left(-\left(\frac{\tau}{\tau_2}\right)^\beta\right) \quad (1)$$

for  $\tau > 0$ , where  $\tau$  denotes the characteristic time. In the appendix of Hashimoto *et al* [1], the authors claim to have derived certain properties of (1).

The distribution given by (1) is by no means new: it is the well known Weibull distribution due to Weibull [2, 3]. It has received applications in most areas of sciences and engineering. Its properties have been studied extensively in the statistics literature [4, 5]. There are even books devoted to the study of the Weibull distribution and its extensions (the most recent being that by Murthy *et al* [6]).

**References**

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