	Table 1 Voltage stability condition applied to 11 test networks.				
	Numerical testing of theoretical predictions				
	Test case (1,000 instances)	Condition correctness	Exact deviation ($\delta_{ m exact}$)	redicted deviation (δ)	Condition accuracy
Raw	9 bus system	True	5.50 · 10 ^{- 2}	5.52 · 10 ^{- 2}	$3.56 \cdot 10^{-3}$
	14 bus system	True	2.50 · 10 - 2	2.51 · 10 ^{- 2}	1.96 · 10 ⁻³
	RTS 24	True	3.28 · 10 ^{- 2}	3.29 · 10 ^{- 2}	$3.28 \cdot 10^{-3}$
	30 bus system	True	4.72 · 10 ^{- 2}	$4.75 \cdot 10^{-2}$	$7.64 \cdot 10^{-3}$
	New England 39	True	5.95 · 10 ^{- 2}	$5.99 \cdot 10^{-2}$	$5.97 \cdot 10^{-3}$
	RTS '96 (2 area)	True	$3.44 \cdot 10^{-2}$	$3.45 \cdot 10^{-2}$	$3.81 \cdot 10^{-3}$
	57 bus system	True	$0.97 \cdot 10^{-1}$	$0.99 \cdot 10^{-1}$	2.97 · 10 - 2
	RTS '96 (3 area)	True	$3.57 \cdot 10^{-2}$	$3.58 \cdot 10^{-2}$	$3.94 \cdot 10^{-3}$
	118 bus system	True	$2.68 \cdot 10^{-2}$	$2.69 \cdot 10^{-2}$	$3.63 \cdot 10^{-3}$
	300 bus system	True	1.32 · 10 - 1	1.36 · 10 ⁻¹	$3.03 \cdot 10^{-2}$
	Polish 2,383 system	True	4.03 · 10 ^{- 2}	$4.06 \cdot 10^{-2}$	$8.55 \cdot 10^{-3}$
	predicted deviations are averaged value network, with 30% of generation (resp	es of the respective quantities over all rea p. 30% of load) randomized by 30% (re	$\leq \delta$ holds for every network realization, where δ lizations. Condition accuracy is calculated as (δ – ssp. 50%) using a normal distribution centred arou	$\delta_{ m exact} / \delta_{ m exact}$, and averaged over 1,00 nd base conditions.	00 randomized instances for each
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Recurrent	1000 instances	exact deviation	predict deviation	condition accur	racy
	9 bus	0.050542676	0.0509947	72	0.008944842
	14 bus	0.026330469	0.0282070	44	0.071270076
	24 bus	0.034816796	0.0347930	82	6.81E-04
	30 bus	0.031184204	0.0336273	84	0.078346723
	39 bus	0.057492414	0.0578797	12	0.0067365
	57 bus	0.097614389	0.1138355	69	0.166176115
	118 bus	0.028035288	0.0287687	47	0.026161973
	300 bus	0.122098382	0.1240446	92	0.015940503

0.041593229

2383bus

0.128452066

0.046935966