

Thread without deviations

7 6 5 4 3 2

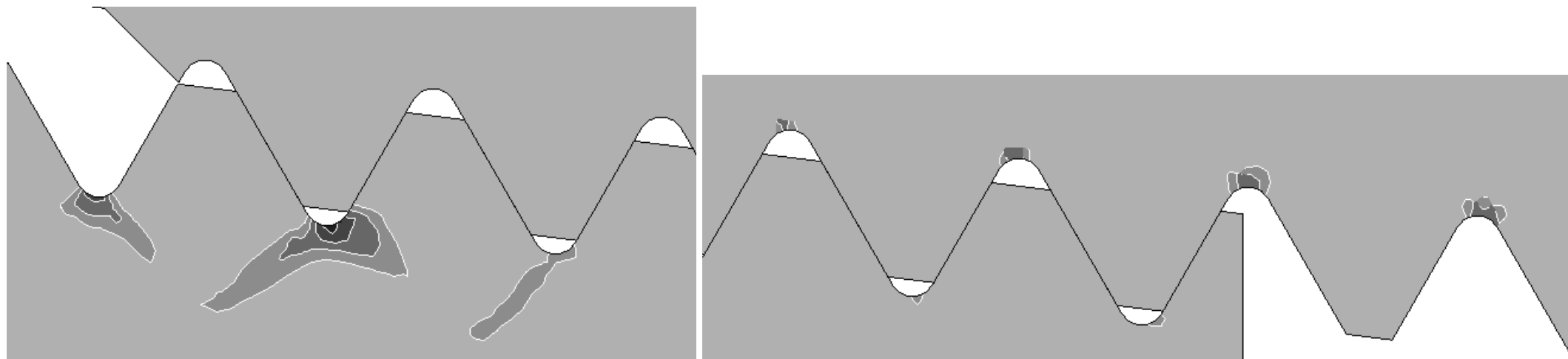
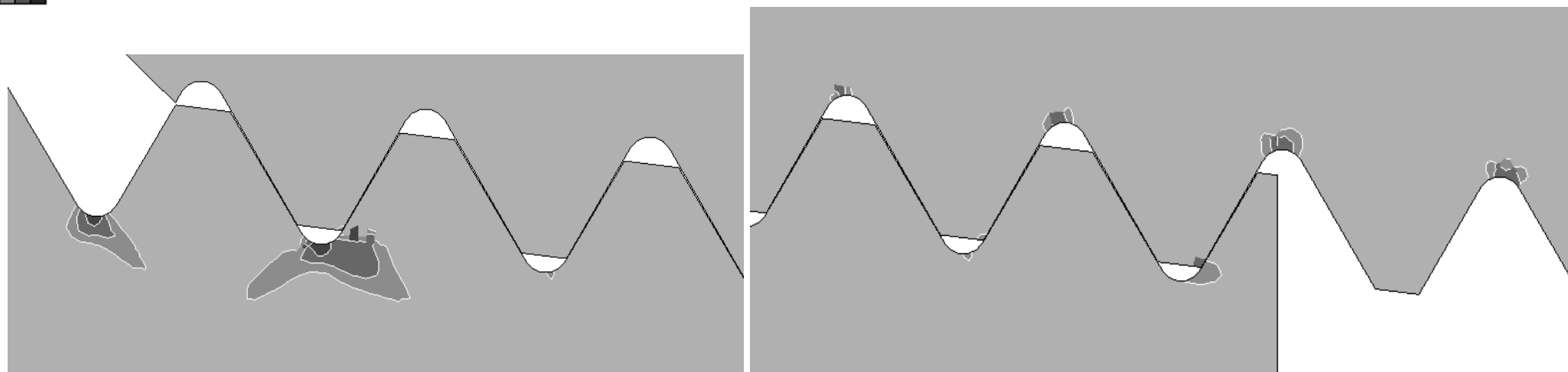
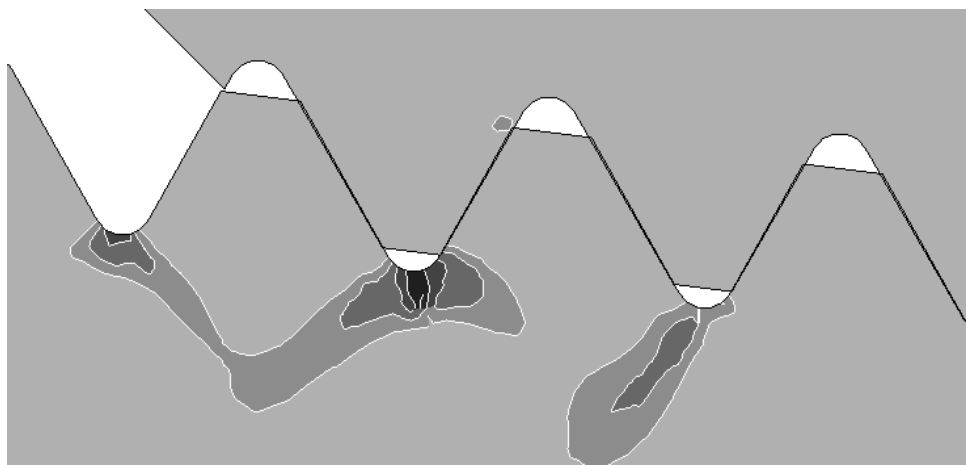


Fig. 1 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for the case $(0, 0)$

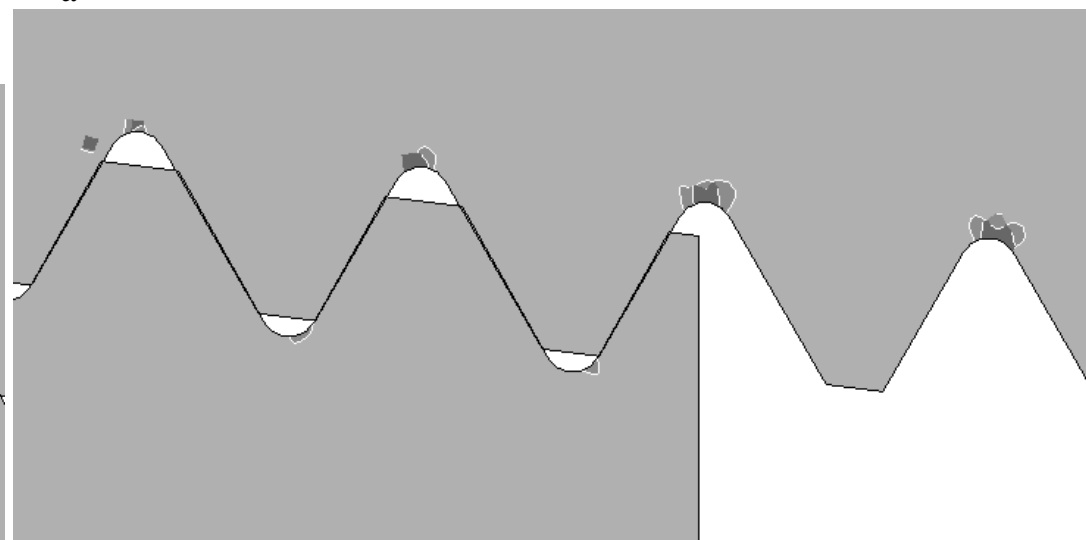
Case I

7 6 5 4 3 2

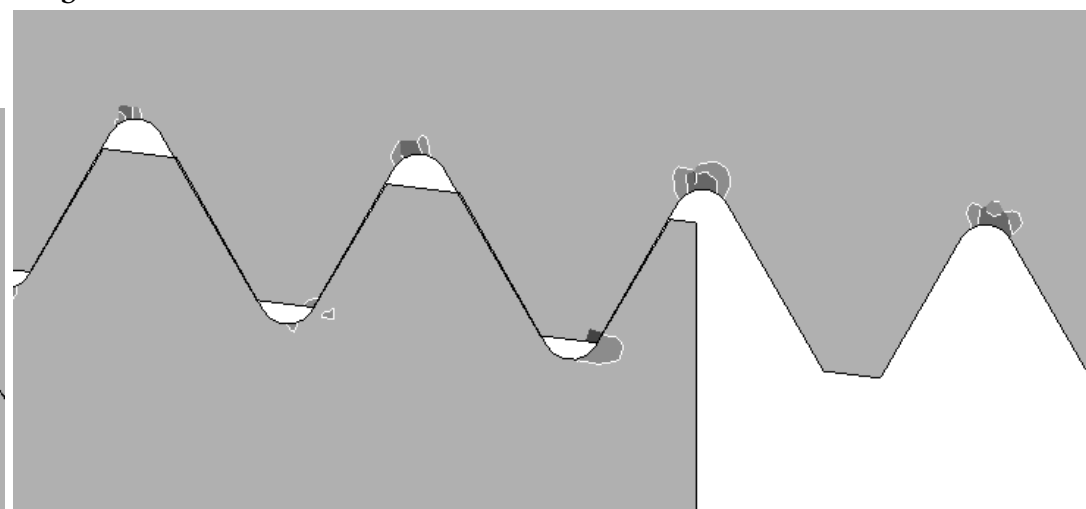
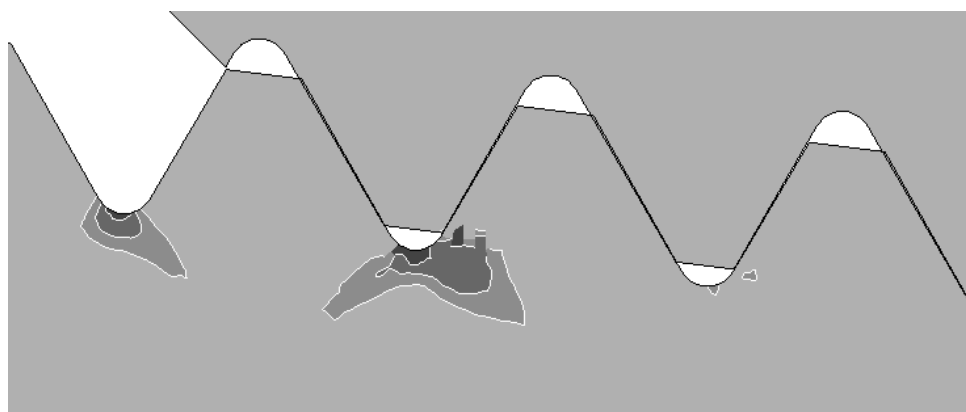




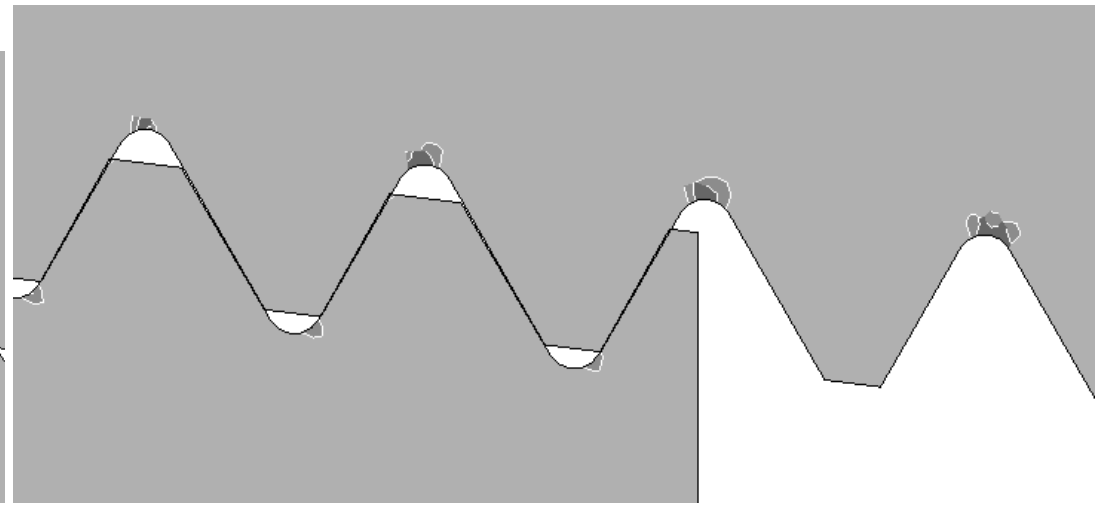
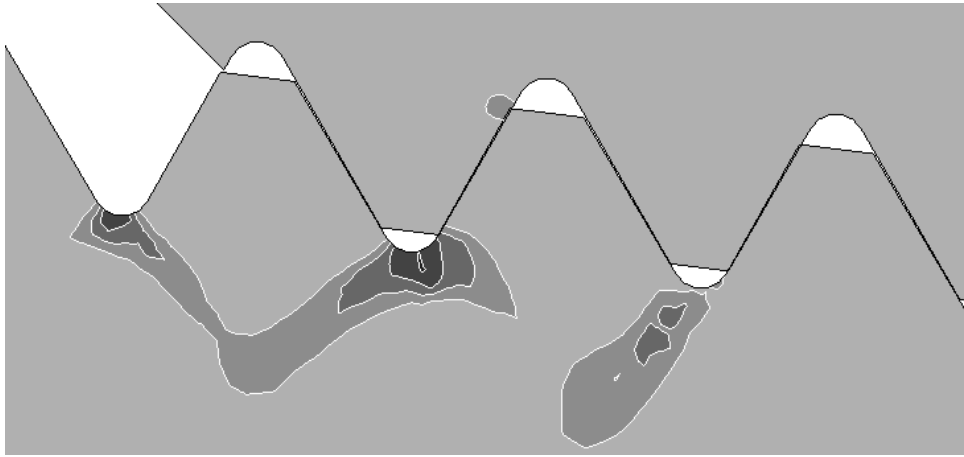
a



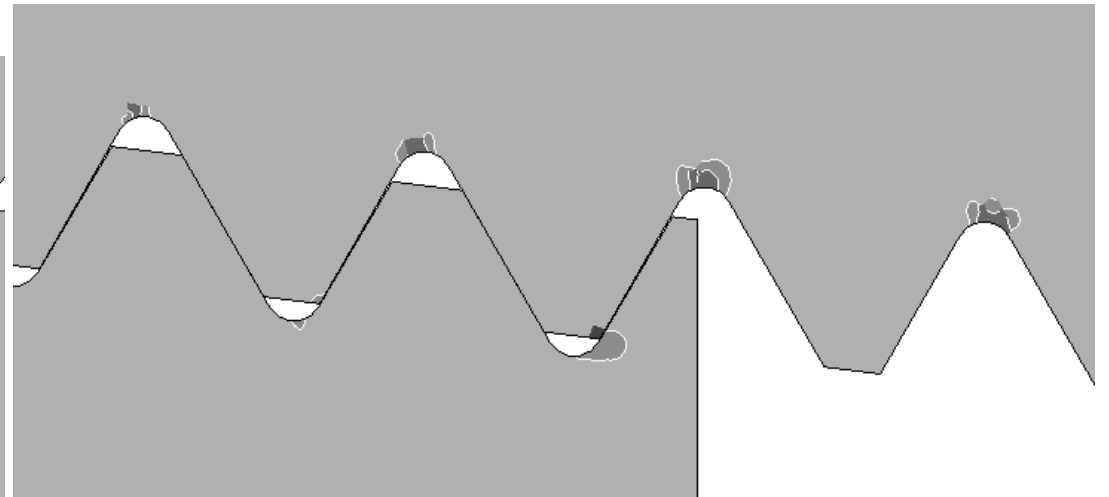
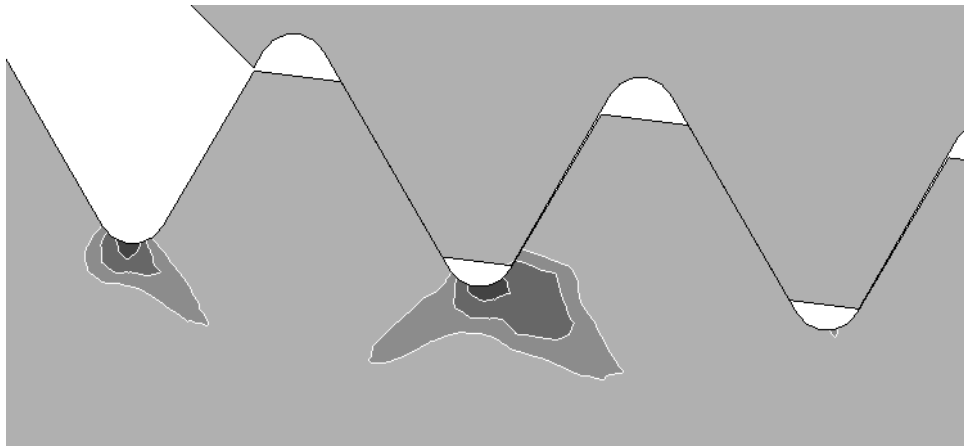
b



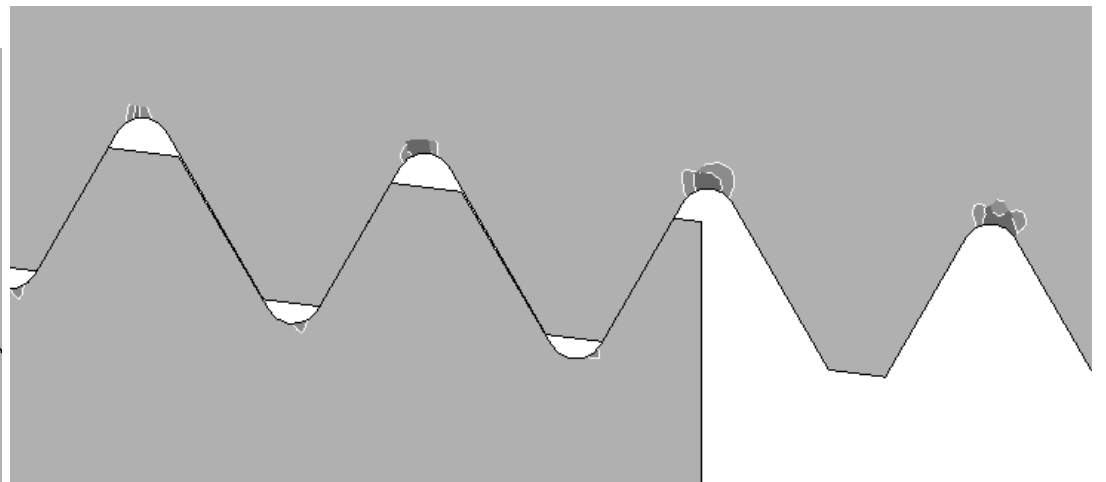
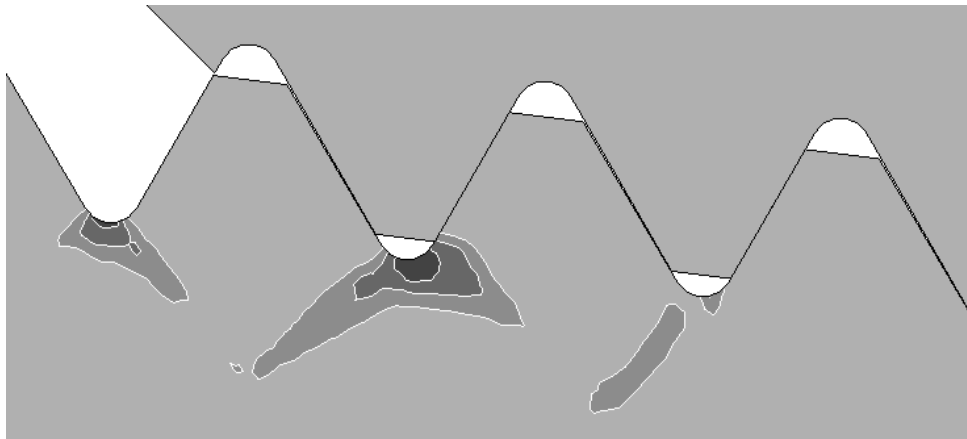
c



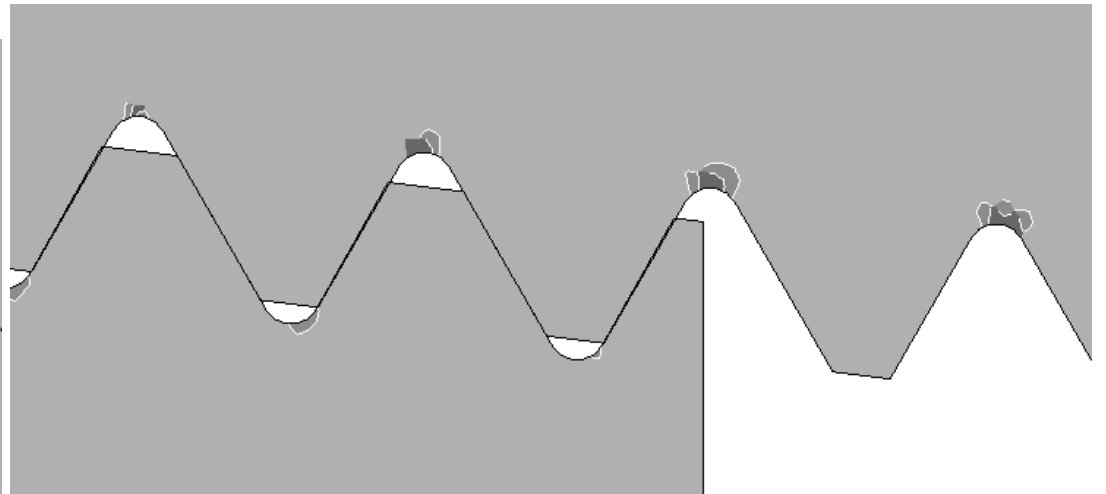
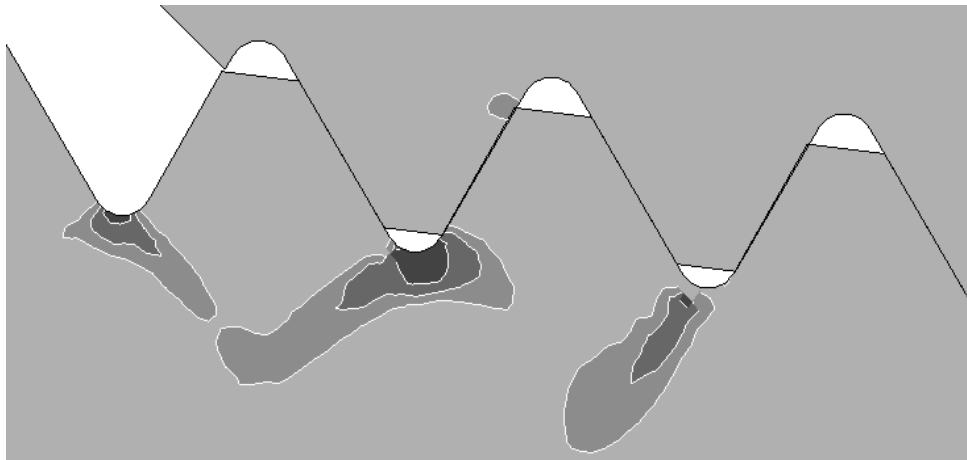
d



e



f



g

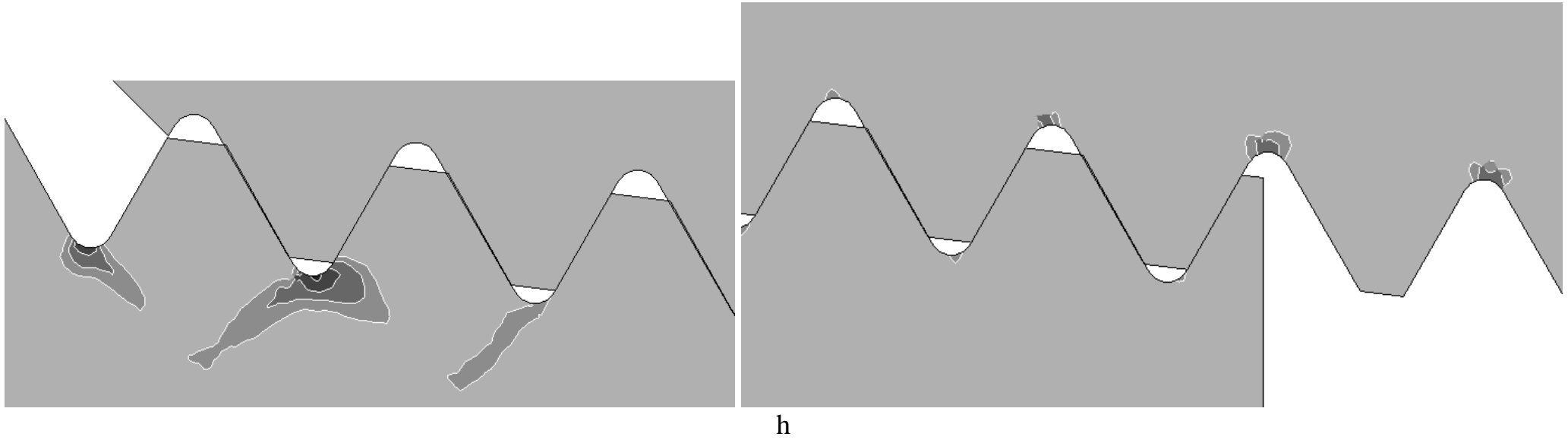
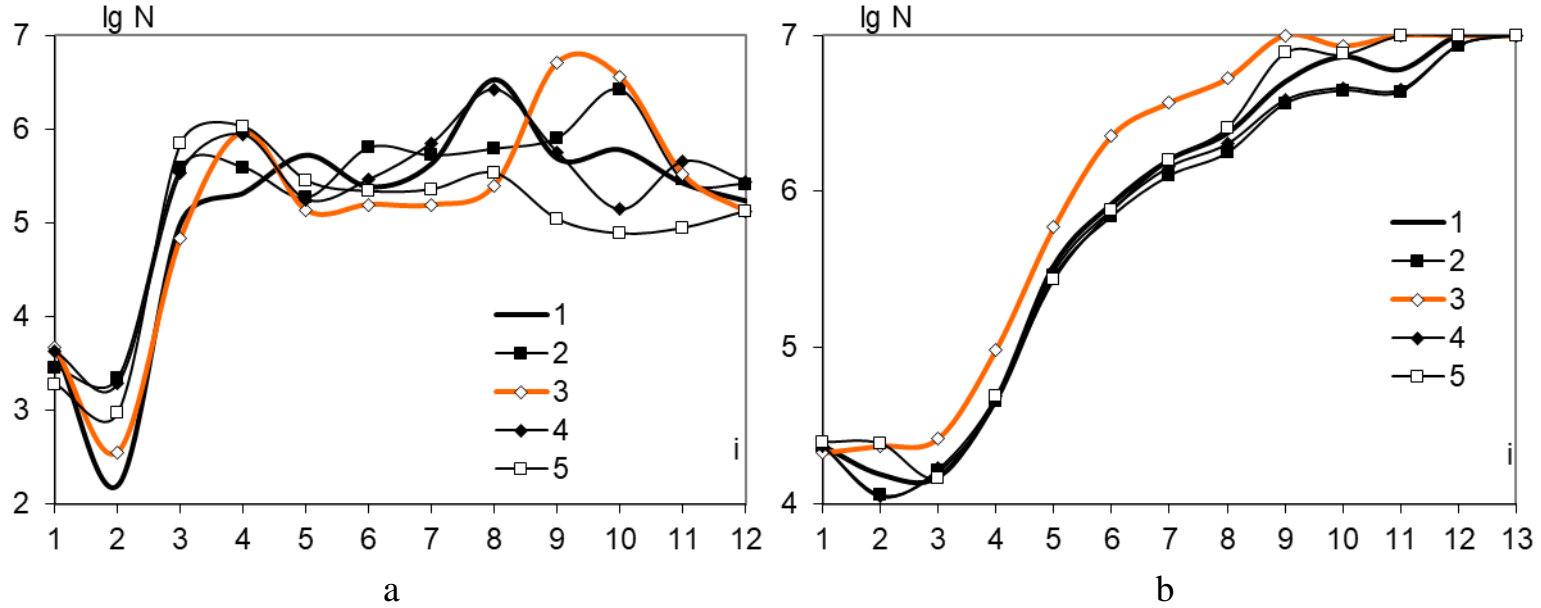


Fig. 2 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case I): a – $(+0.5, +0.5)$, b – $(-0.5, -0.5)$, c – $(+0.5, -0.5)$, d – $(-0.5, +0.5)$, e – $(+0.5, 0)$, f – $(0, +0.5)$, g – $(-0.5, 0)$, h – $(0, -0.5)$



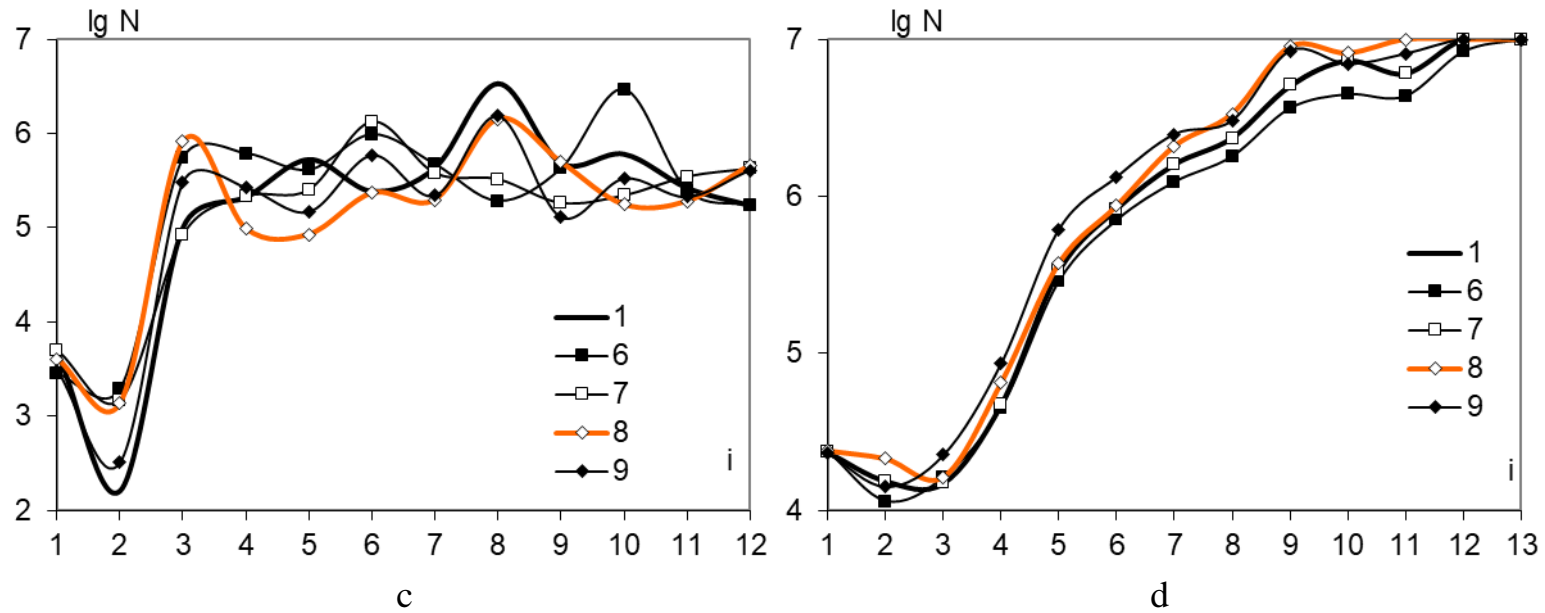


Fig. 3 Values of $\lg N$ in roots i of pin (a, c) and box (b, d) threads for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case I): 1 – (0, 0), 2 – (+0.5, +0.5), 3 – (-0.5, -0.5), 4 – (+0.5, -0.5), 5 – (-0.5, +0.5), 6 – (+0.5, 0), 7 – (0, +0.5), 8 – (-0.5, 0), 9 – (0, -0.5)

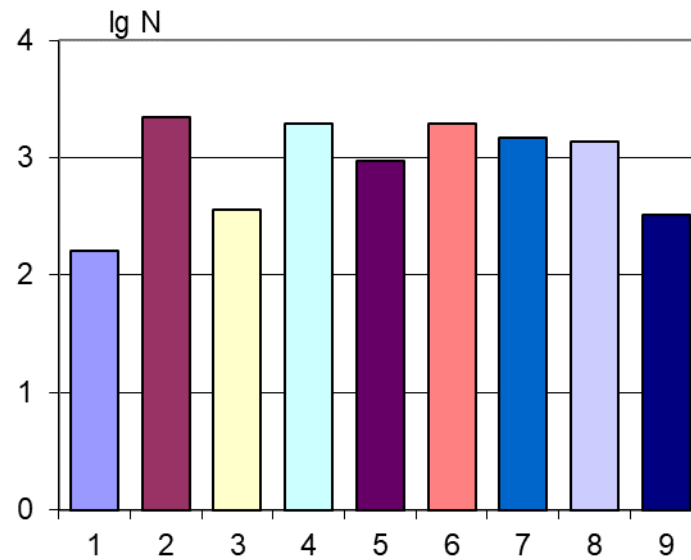
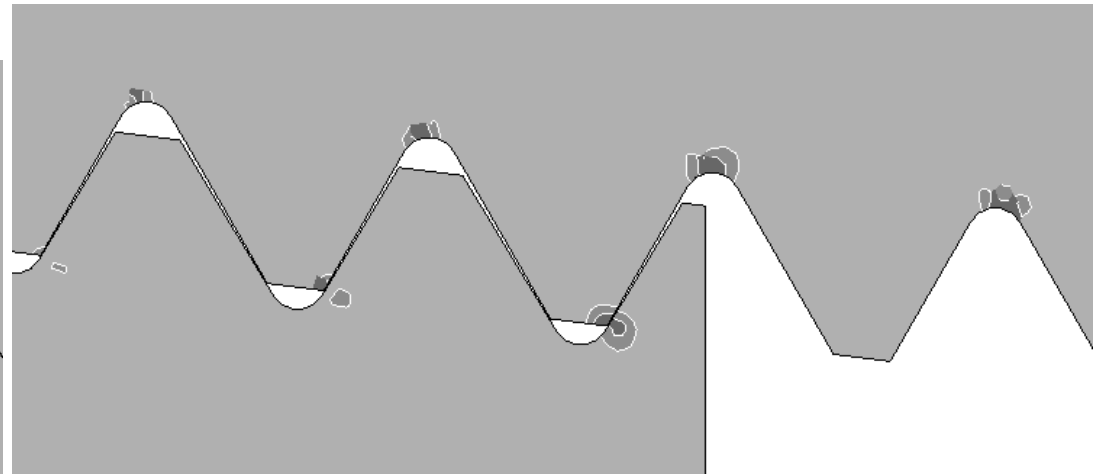
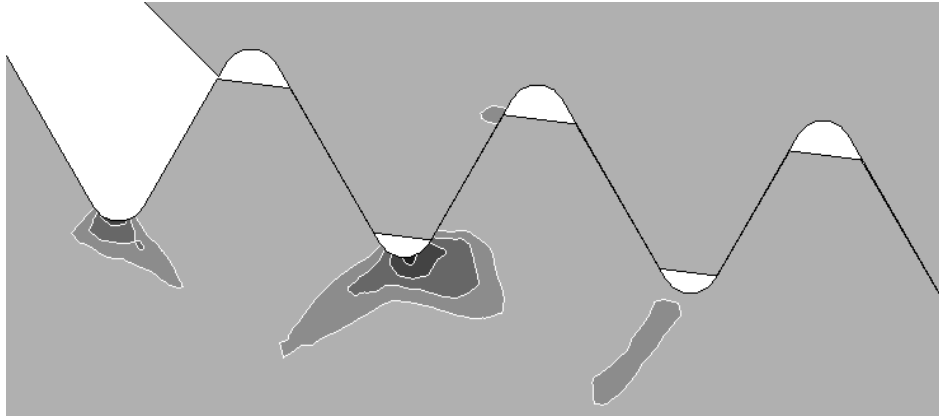
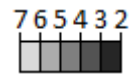
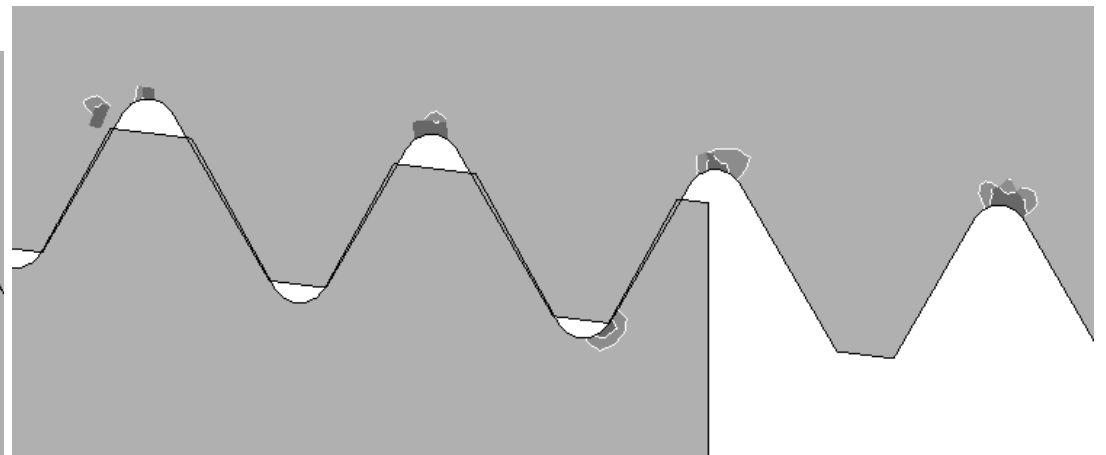
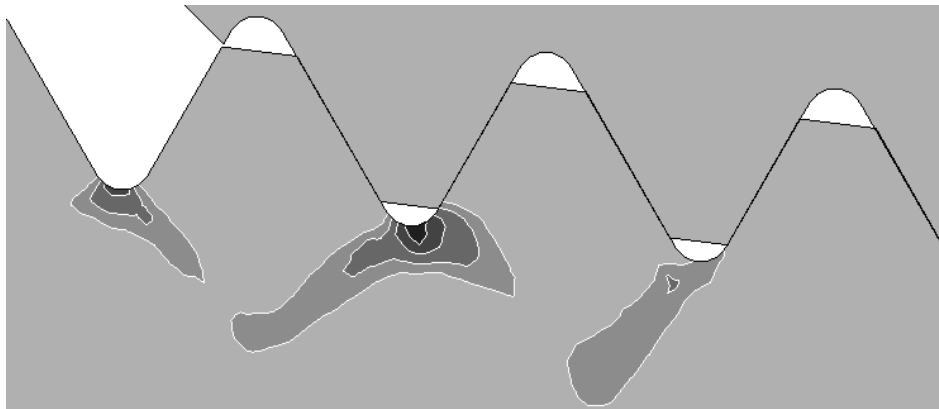


Fig. 4 Values of $\lg N$ in the root 2 of the pin thread for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case I): 1 – (0, 0), 2 – (+0.5, +0.5), 3 – (-0.5, -0.5), 4 – (+0.5, -0.5), 5 – (-0.5, +0.5), 6 – (+0.5, 0), 7 – (0, +0.5), 8 – (-0.5, 0), 9 – (0, -0.5)

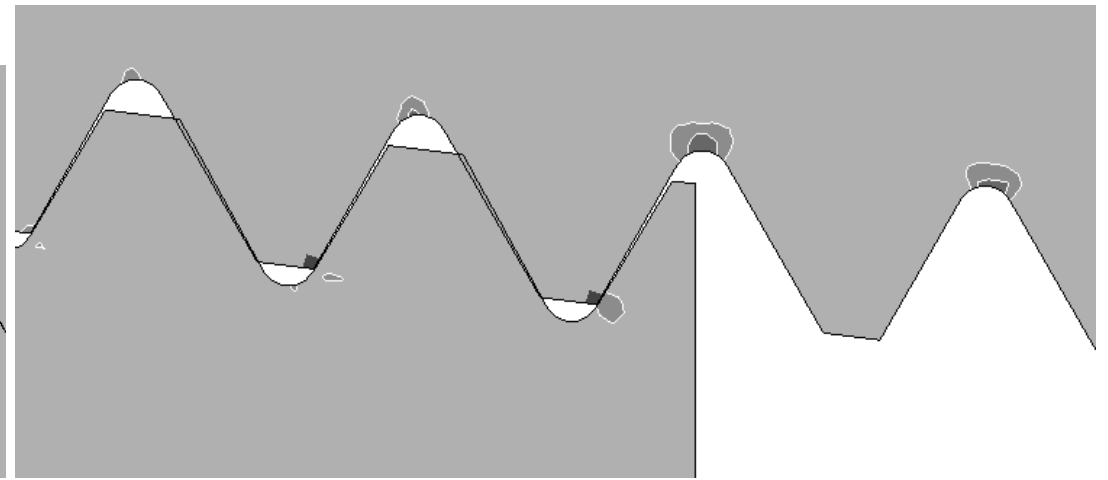
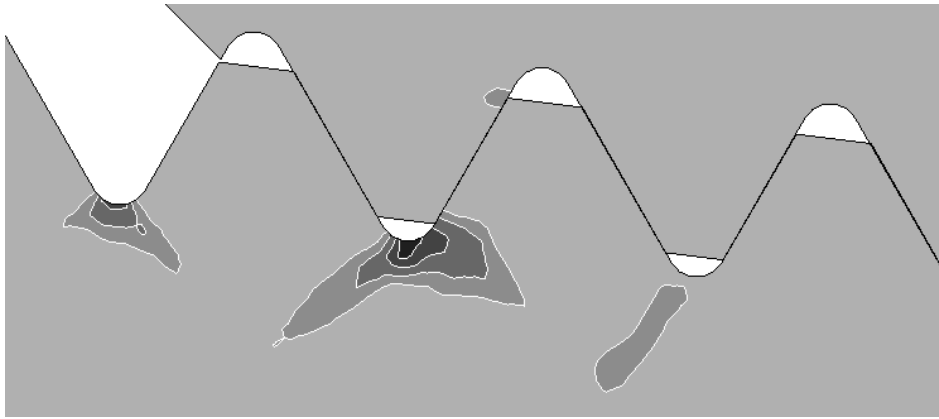
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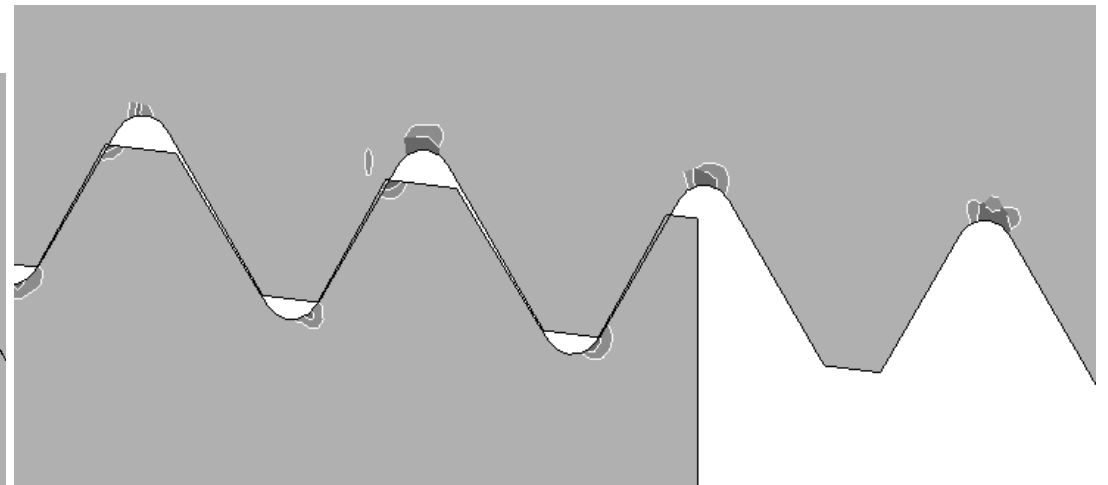
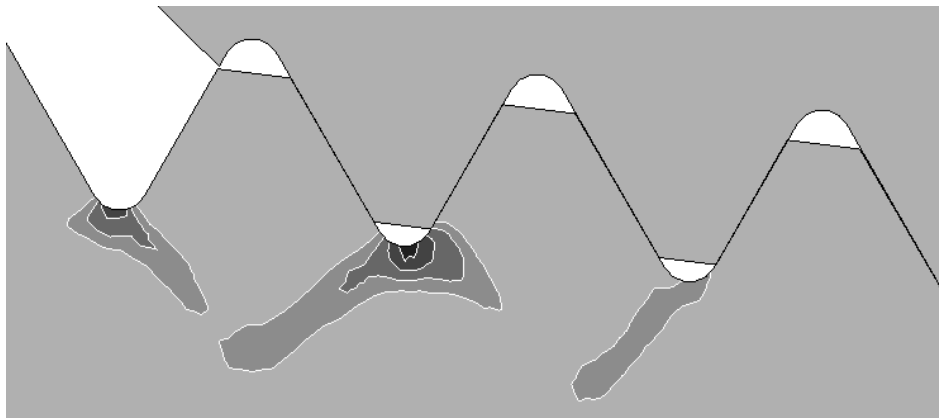
a



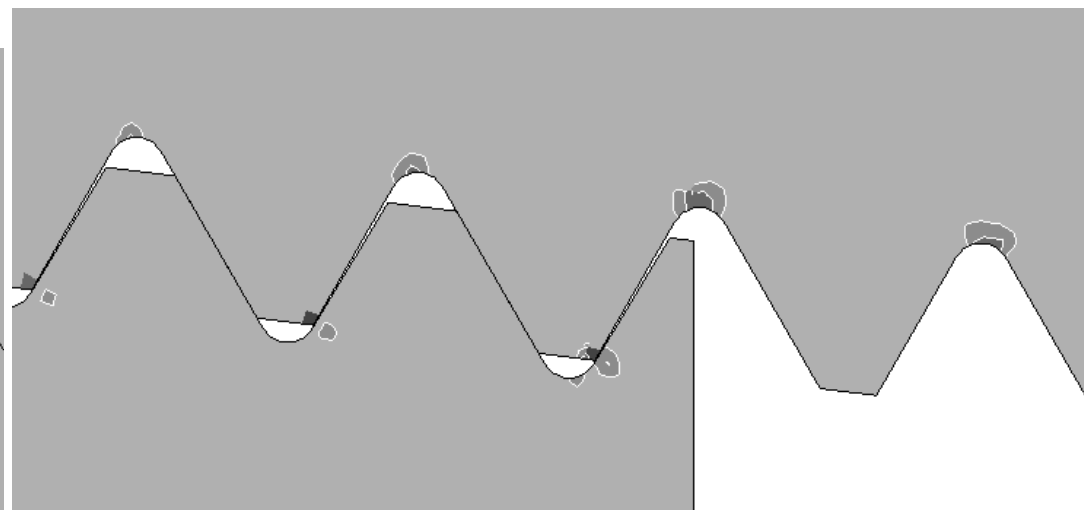
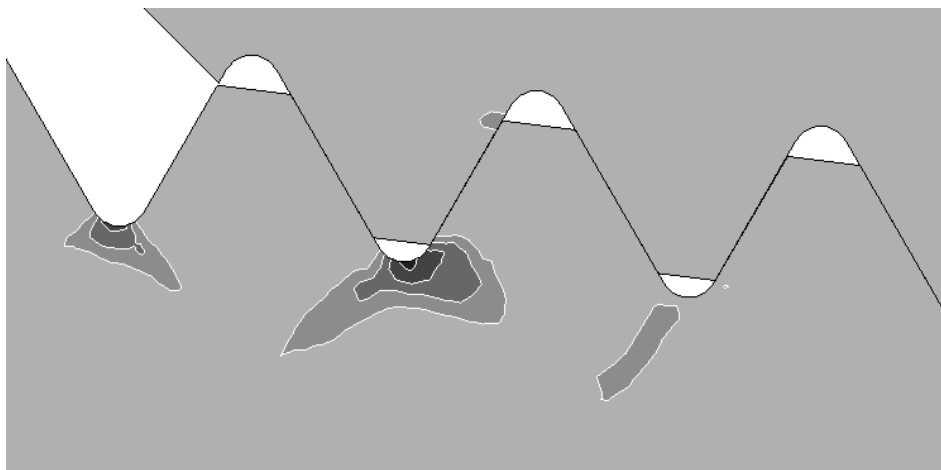
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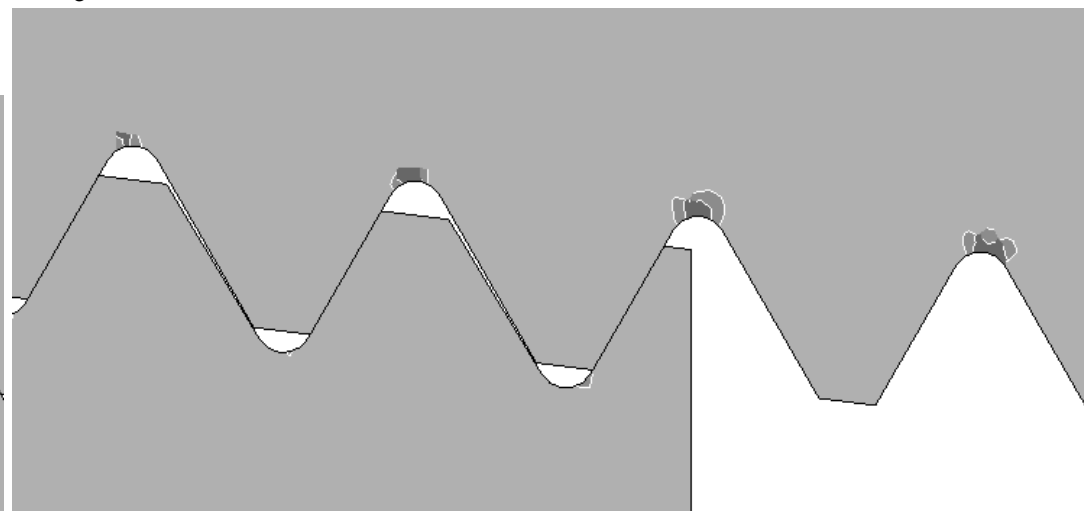
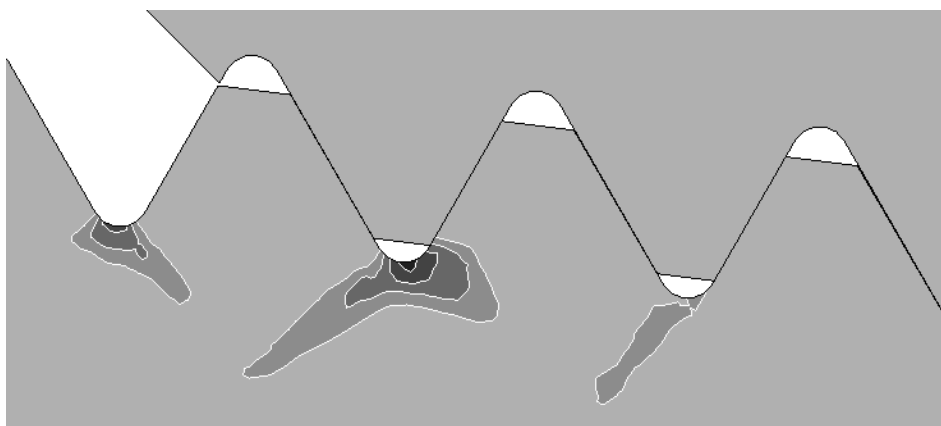
c



d



e



f

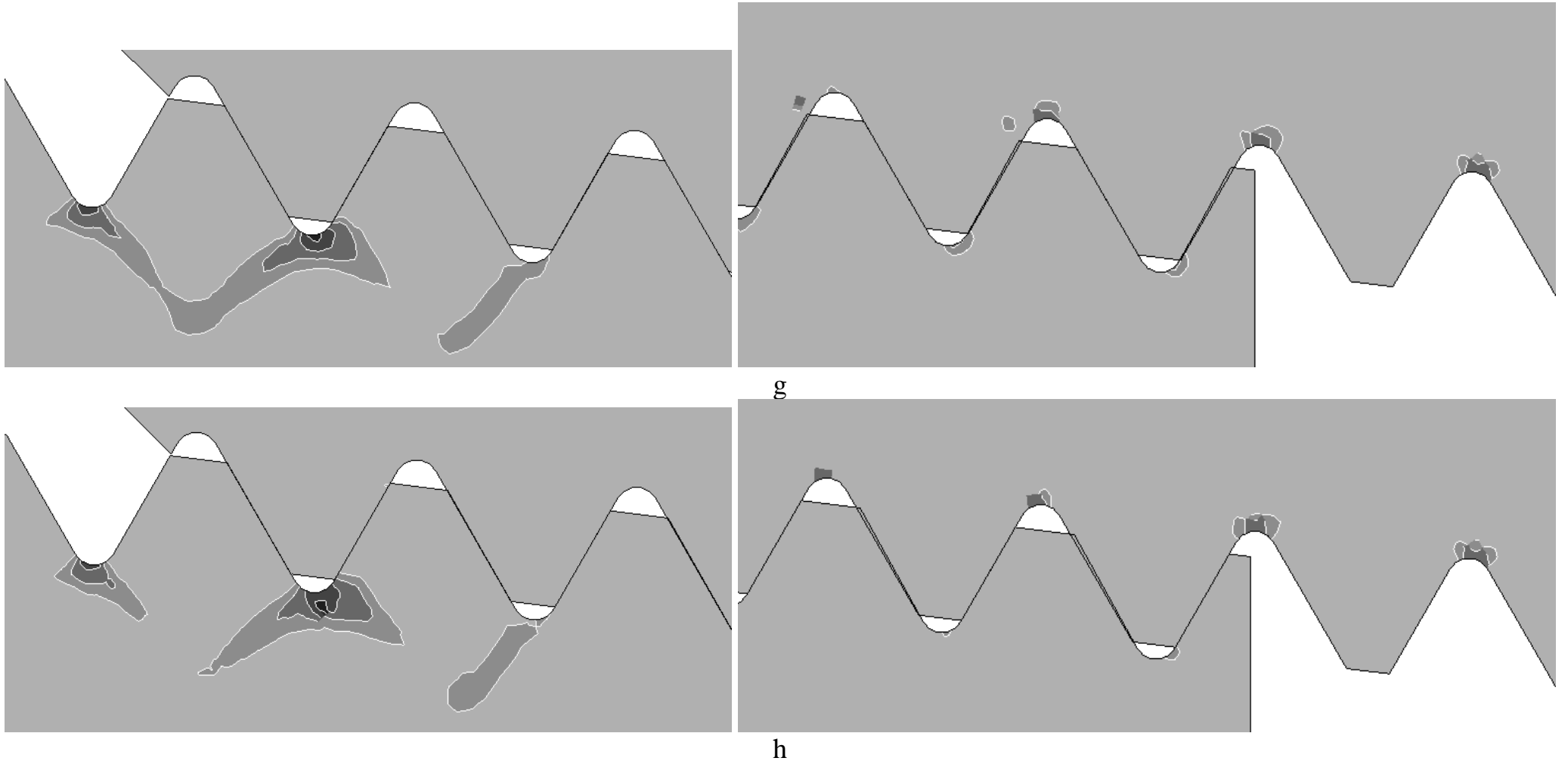


Fig. 5 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for pairs (x_1, x_2) (case II): a – $(+0.1, +0.1)$, b – $(-0.1, -0.1)$, c – $(+0.1, -0.1)$, d – $(-0.1, +0.1)$, e – $(+0.1, 0)$, f – $(0, +0.1)$, g – $(-0.1, 0)$, h – $(0, -0.1)$

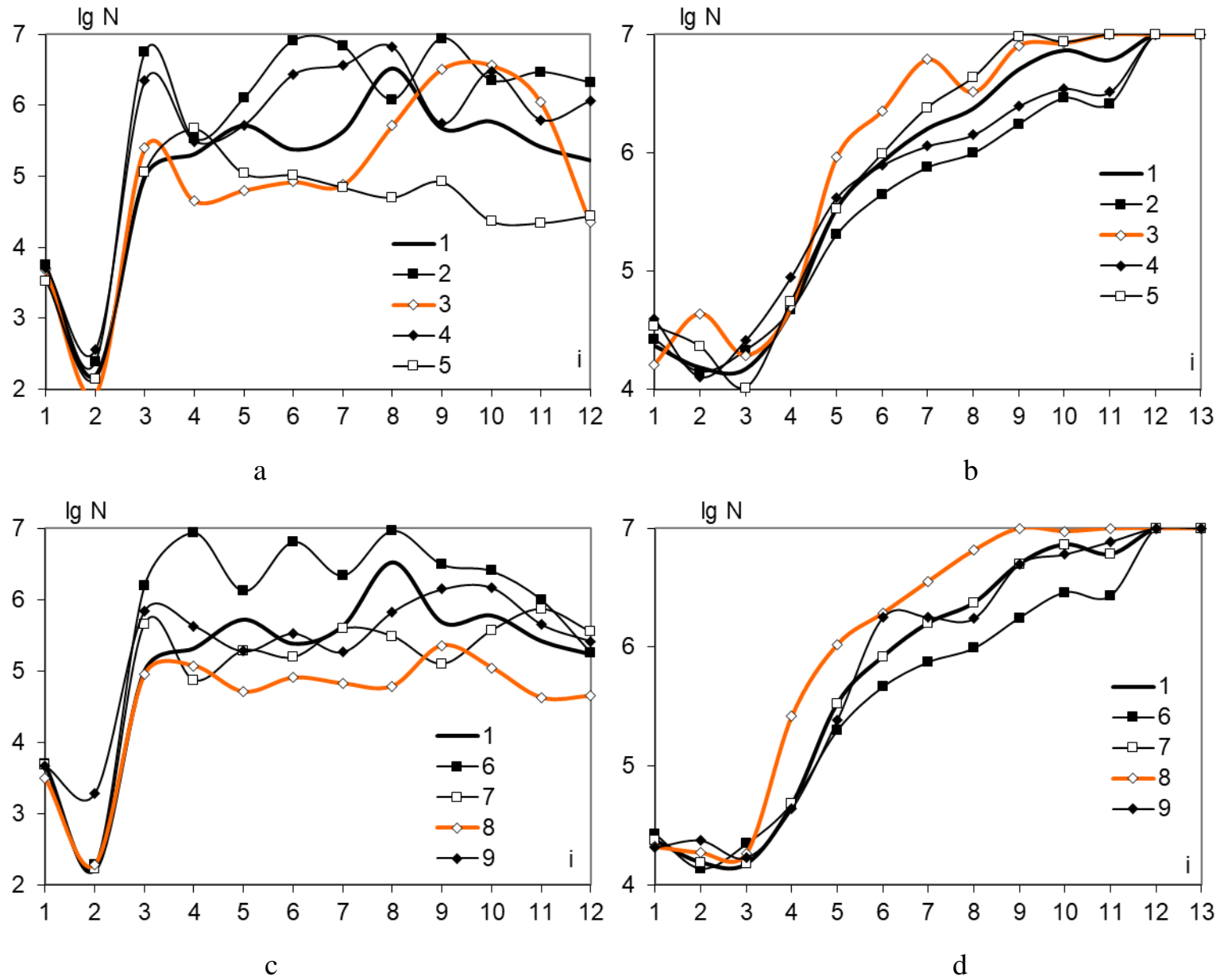


Fig. 6 Values of $\lg N$ in roots i of pin (a, c) and box (b, d) threads for pairs $(\Delta\phi_1, \Delta\phi_2)$ (case II): 1 – (0, 0), 2 – (+0.1, +0.1), 3 – (-0.1, -0.1), 4 – (+0.1, -0.1), 5 – (-0.1, +0.1), 6 – (+0.1, 0), 7 – (0, +0.1), 8 – (-0.1, 0), 9 – (0, -0.1)

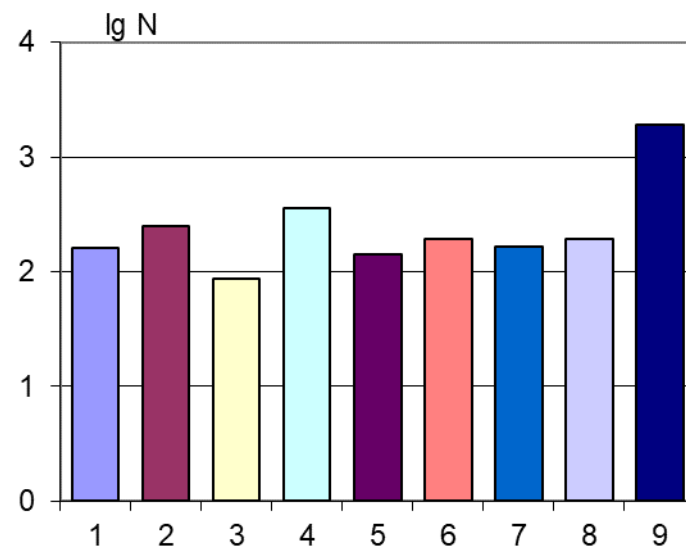
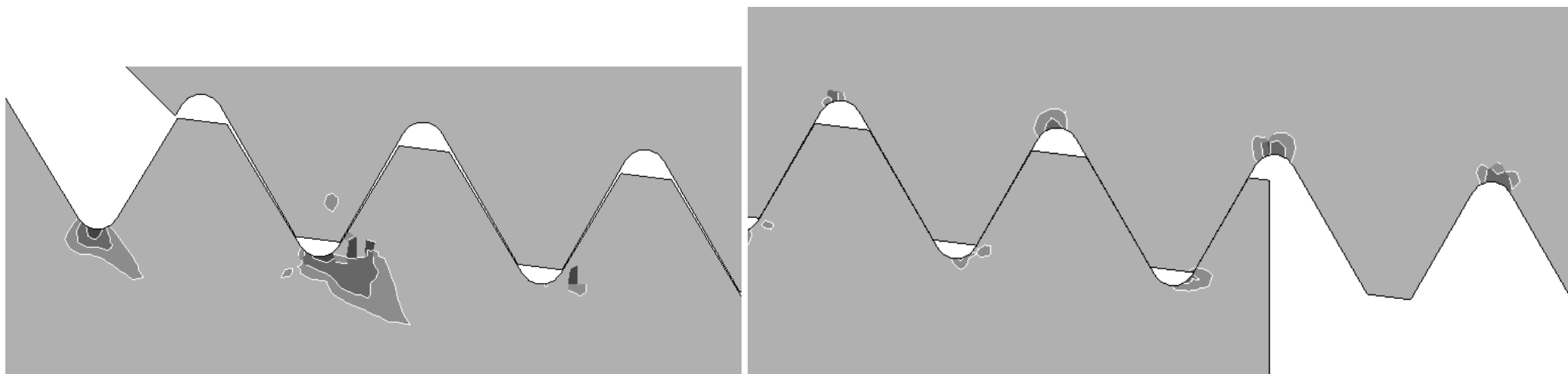


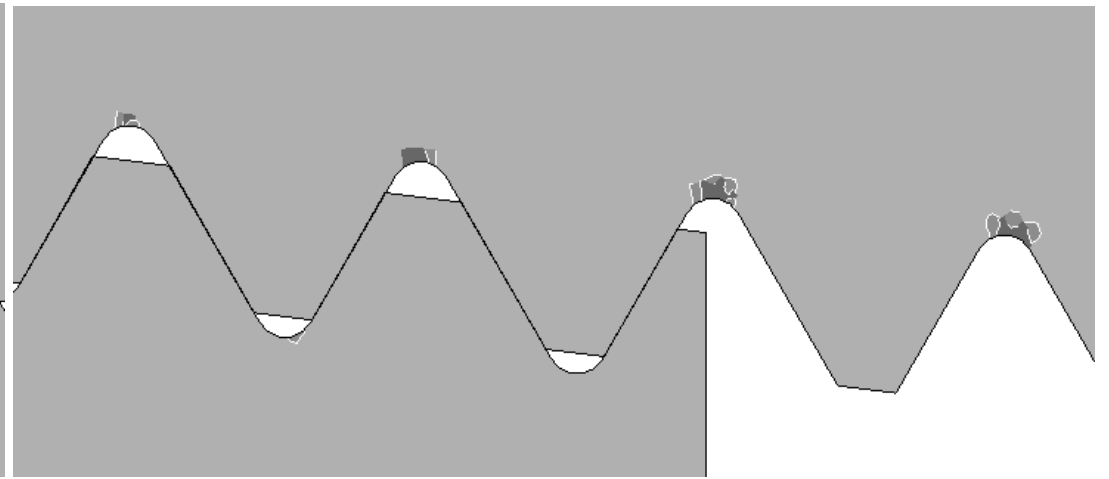
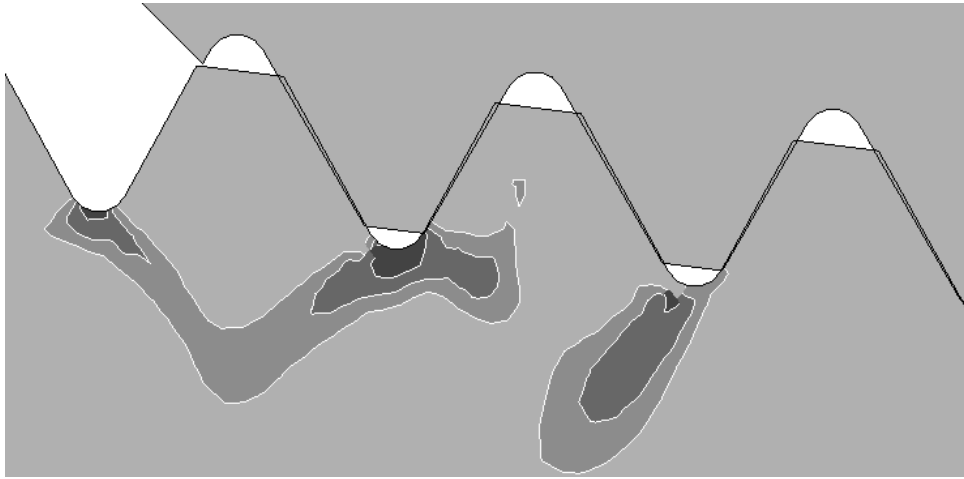
Fig. 7 Values of $\lg N$ in the root 2 of the pin thread for pairs $(\Delta\phi_1, \Delta\phi_2)$ (case II): 1 – (0, 0), 2 – (+0.1, +0.1), 3 – (-0.1, -0.1), 4 – (+0.1, -0.1), 5 – (-0.1, +0.1), 6 – (+0.1, 0), 7 – (0, +0.1), 8 – (-0.1, 0), 9 – (0, -0.1)

Case III

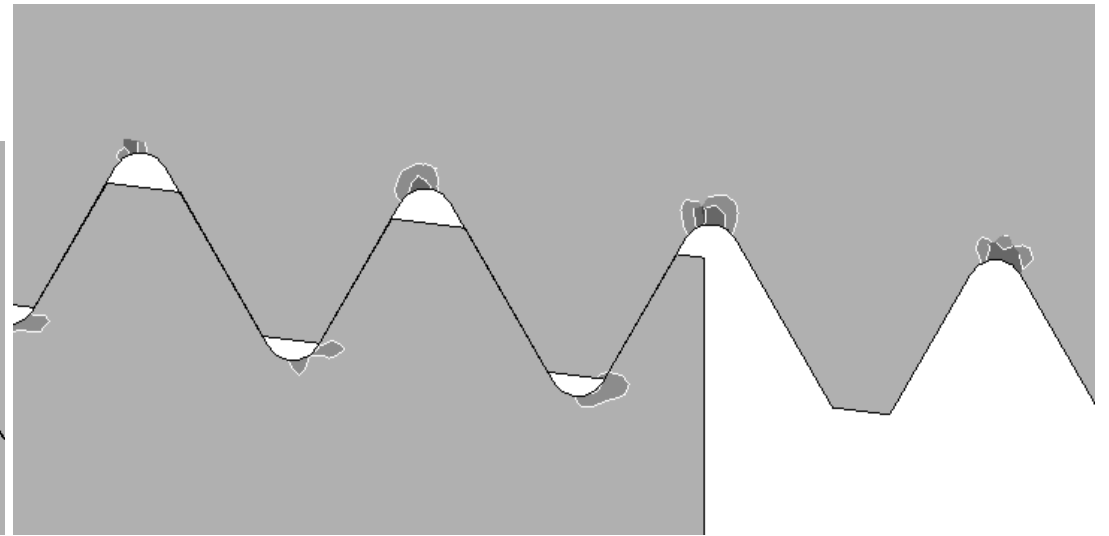
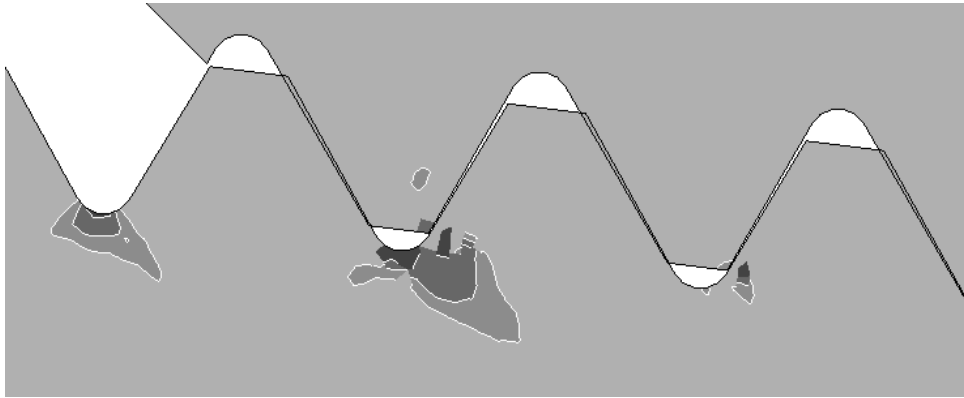
7 6 5 4 3 2



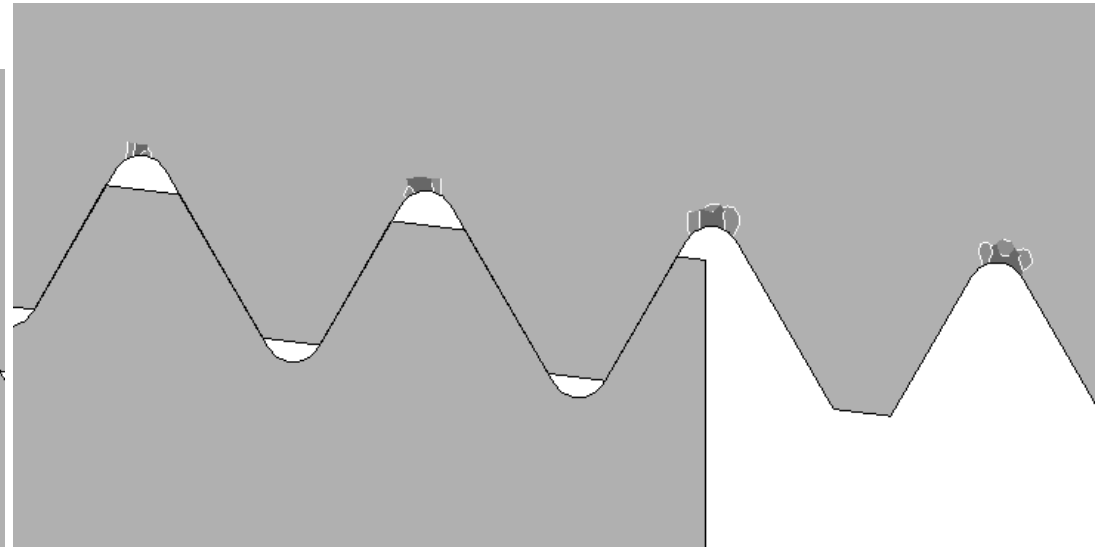
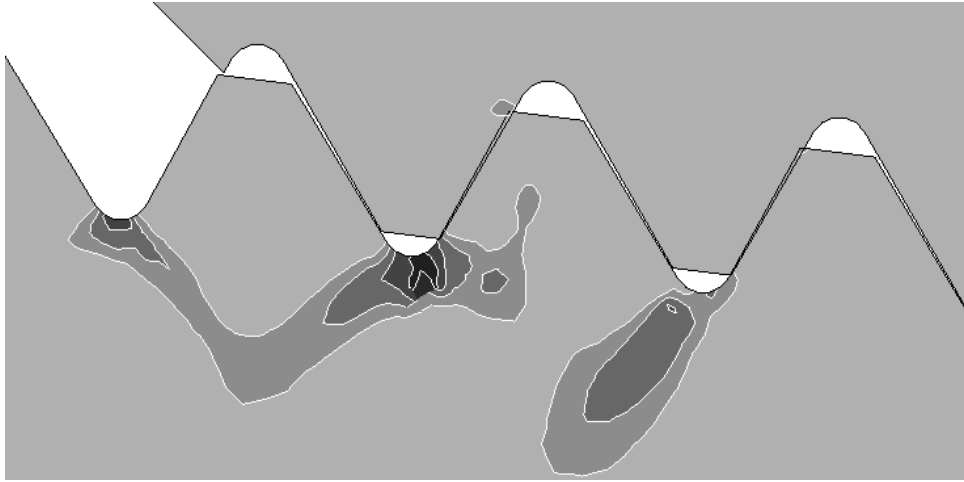
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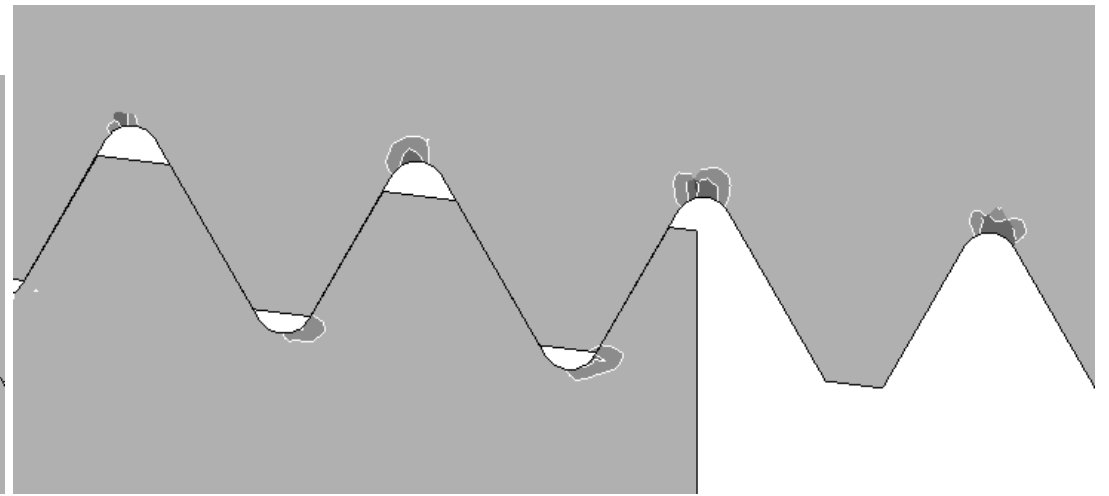
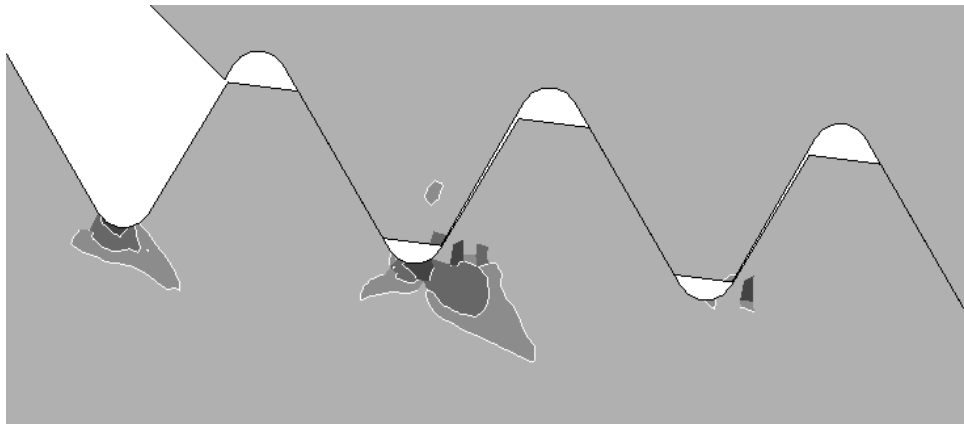
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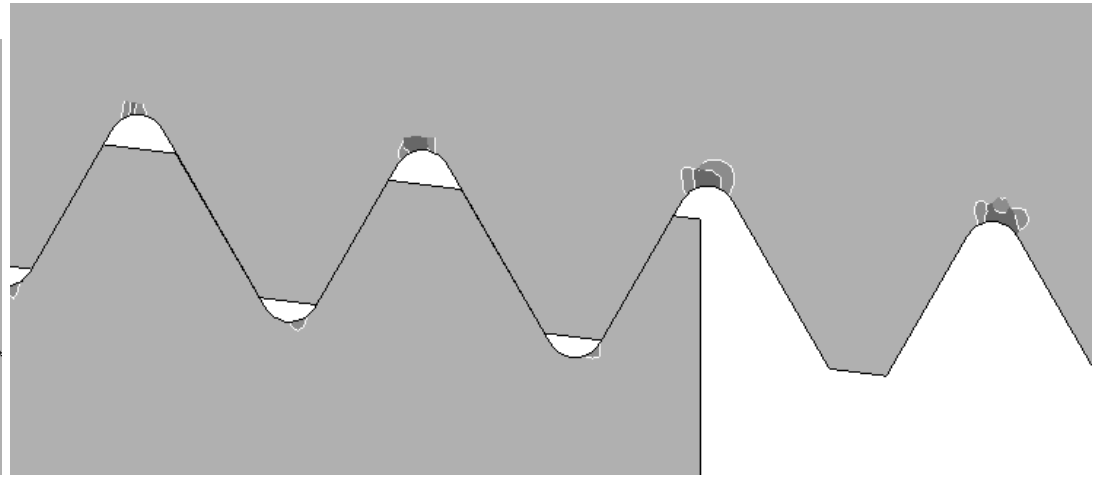
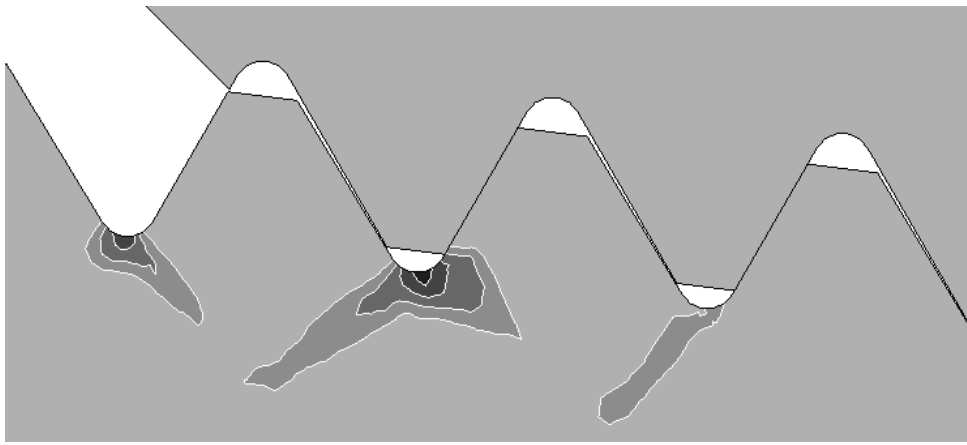
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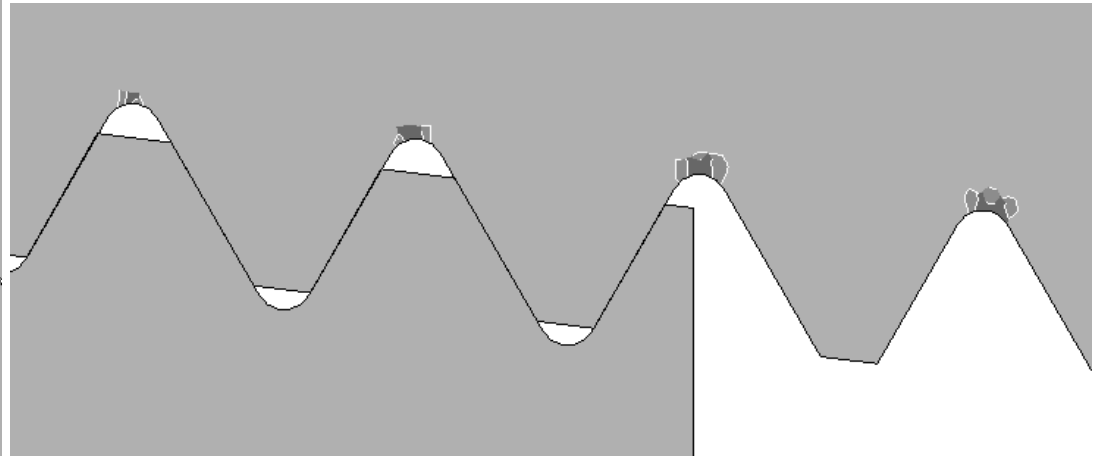
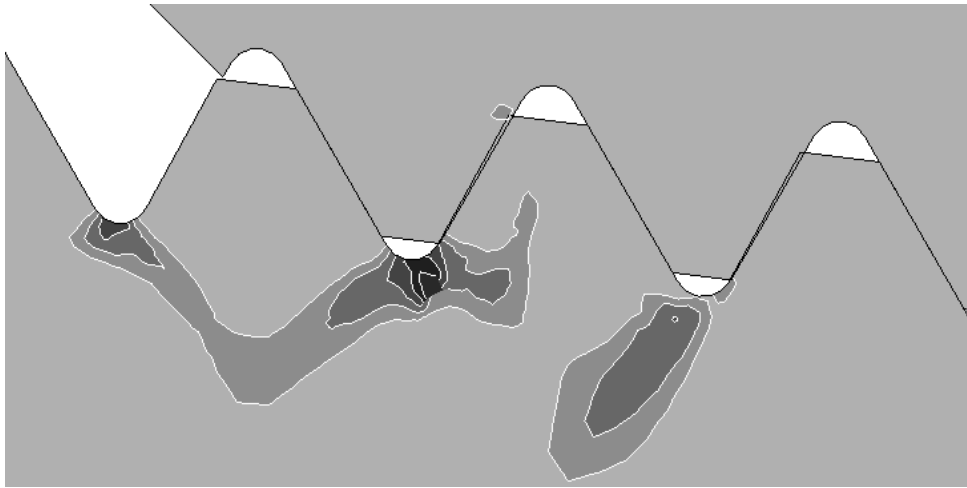
d



e



f



g

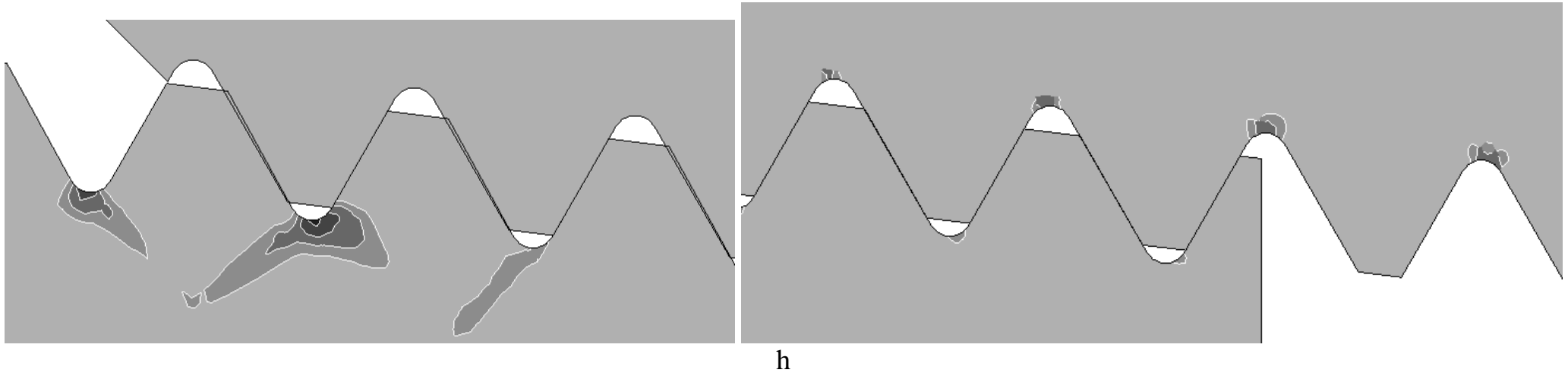
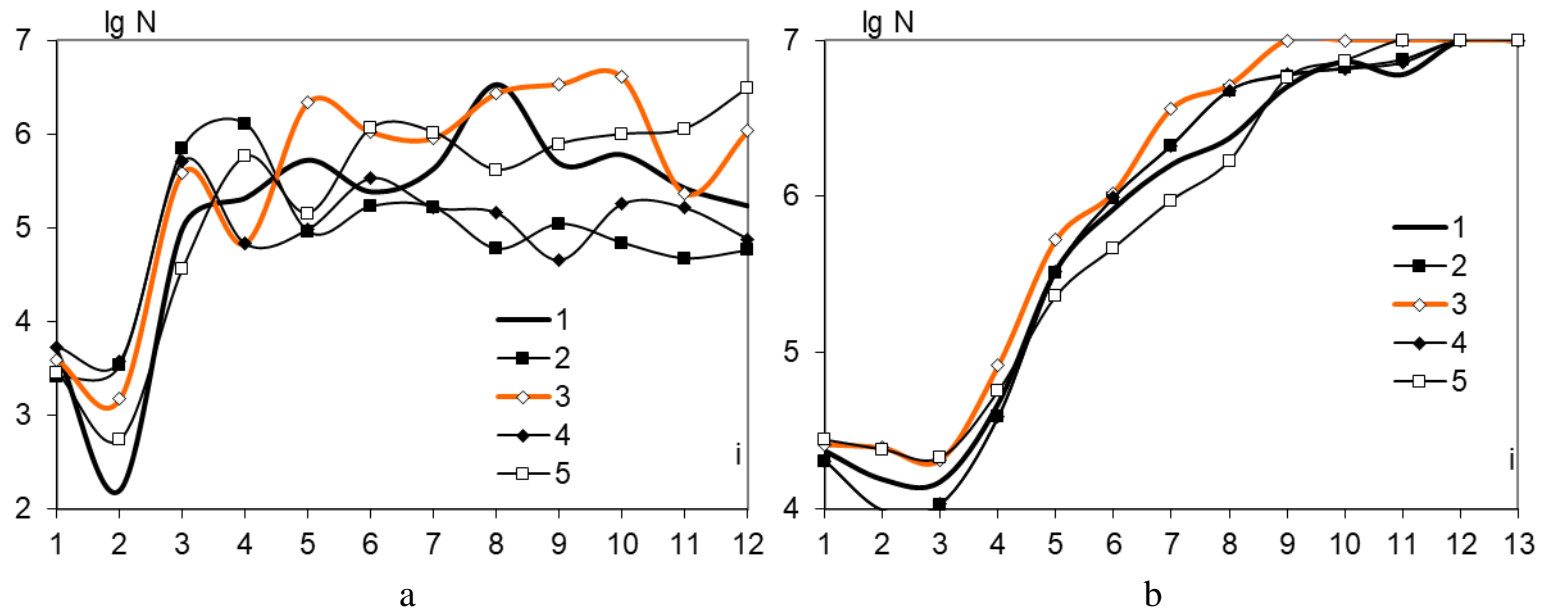


Fig. 8 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for pairs (x_1, x_2) (case III): a – $(+0.1, +0.1)$, b – $(-0.1, -0.1)$, c – $(+0.1, -0.1)$, d – $(-0.1, +0.1)$, e – $(+0.1, 0)$, f – $(0, +0.1)$, g – $(-0.1, 0)$, h – $(0, -0.1)$



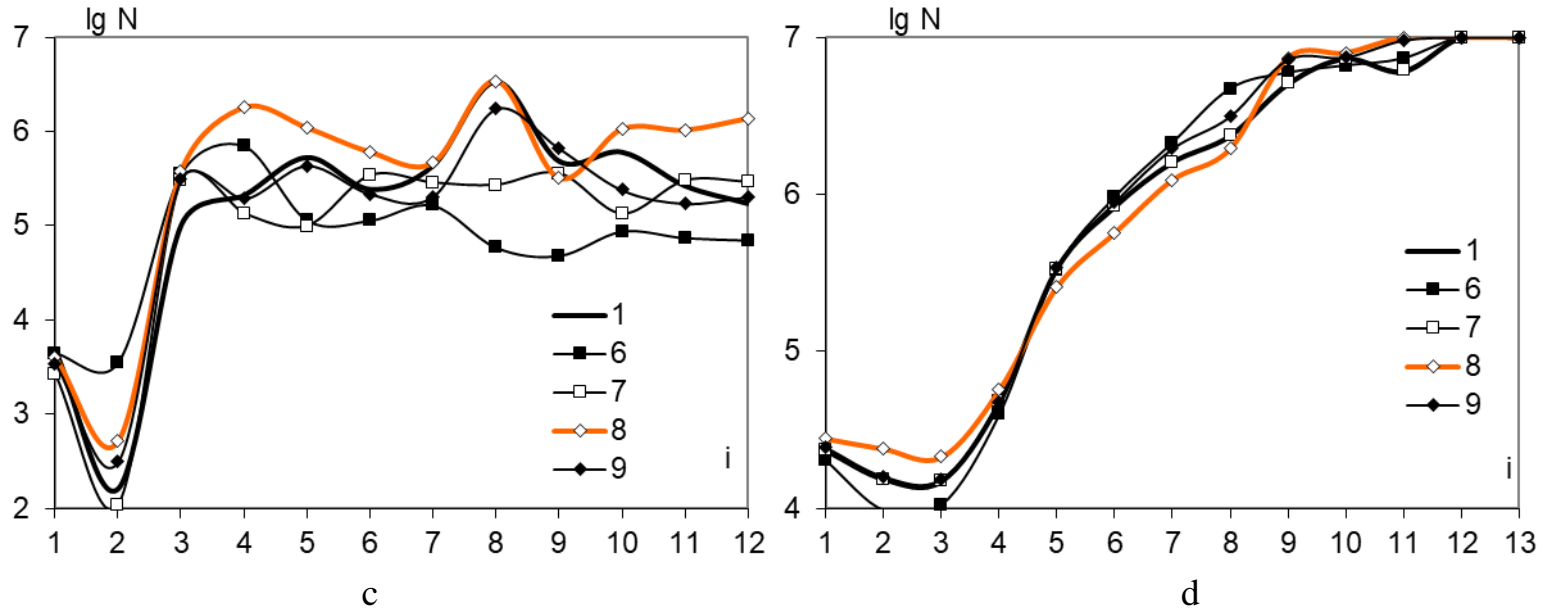


Fig. 9 Values of $\lg N$ in roots i of pin (a, c) and box (b, d) threads for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case III): 1 – (0, 0), 2 – (+0.1, +0.1), 3 – (-0.1, -0.1), 4 – (+0.1, -0.1), 5 – (-0.1, +0.1), 6 – (+0.1, 0), 7 – (0, +0.1), 8 – (-0.1, 0), 9 – (0, -0.1)

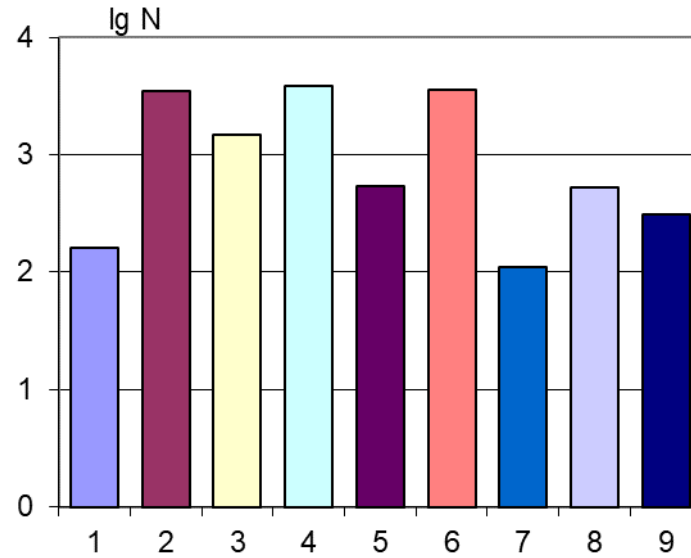
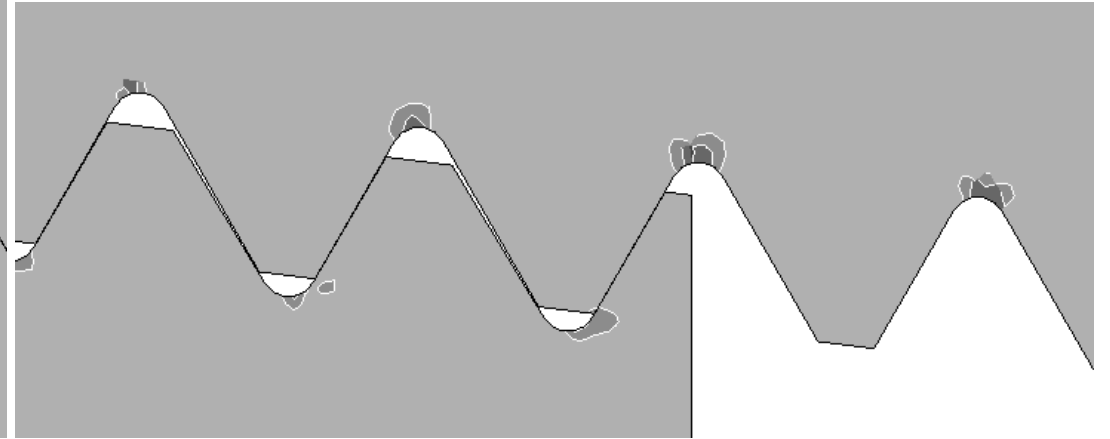
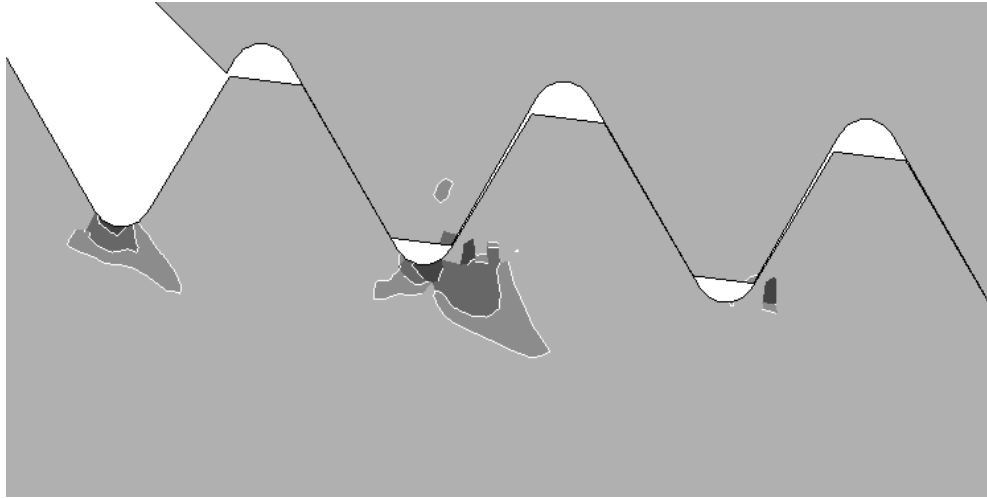
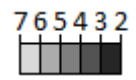
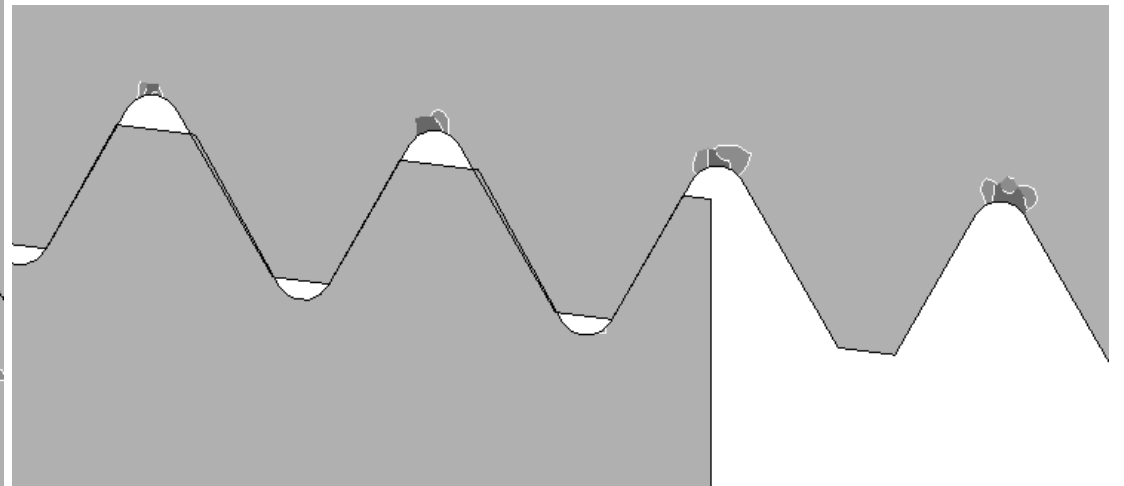
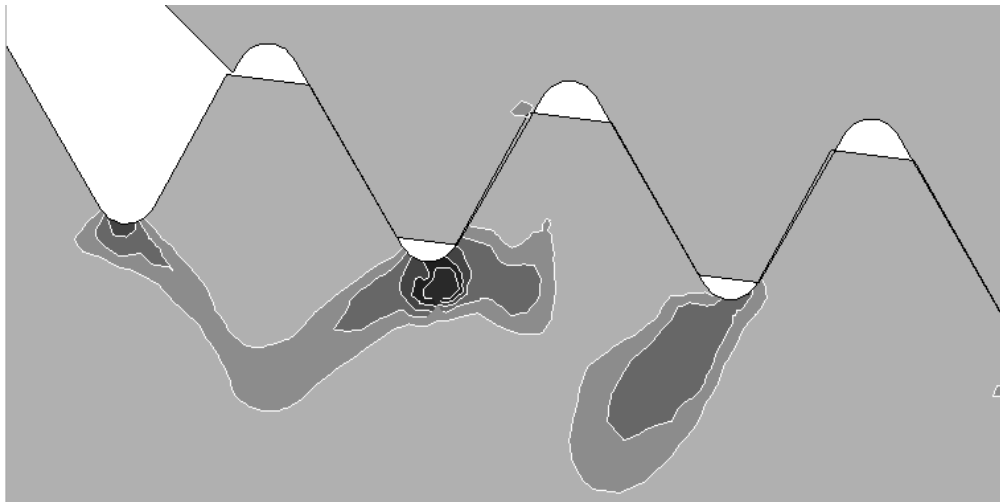


Fig. 10 Values of $\lg N$ in the root 2 of the pin thread for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case III): 1 – (0, 0), 2 – (+0.1, +0.1), 3 – (-0.1, -0.1), 4 – (+0.1, -0.1), 5 – (-0.1, +0.1), 6 – (+0.1, 0), 7 – (0, +0.1), 8 – (-0.1, 0), 9 – (0, -0.1)

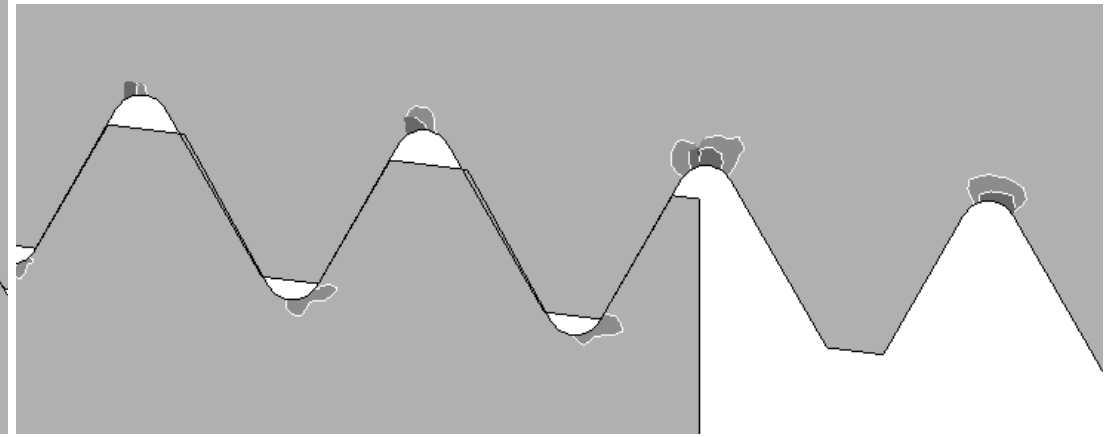
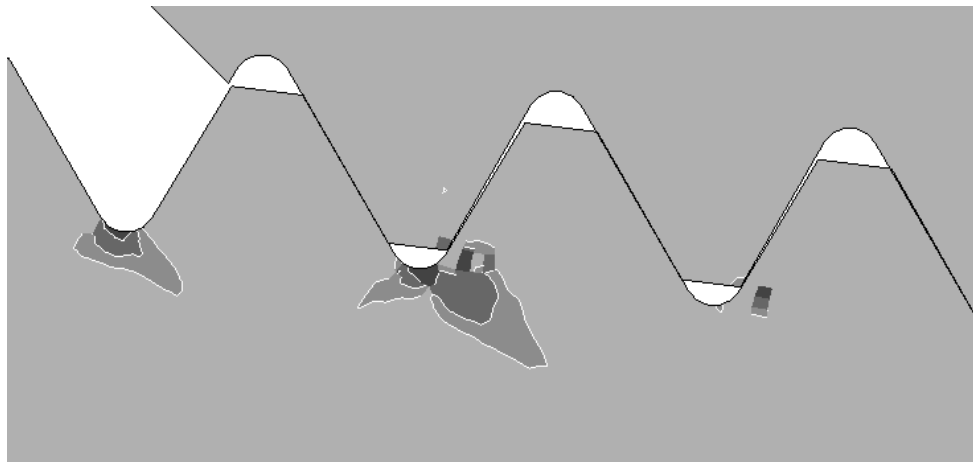
Case IV



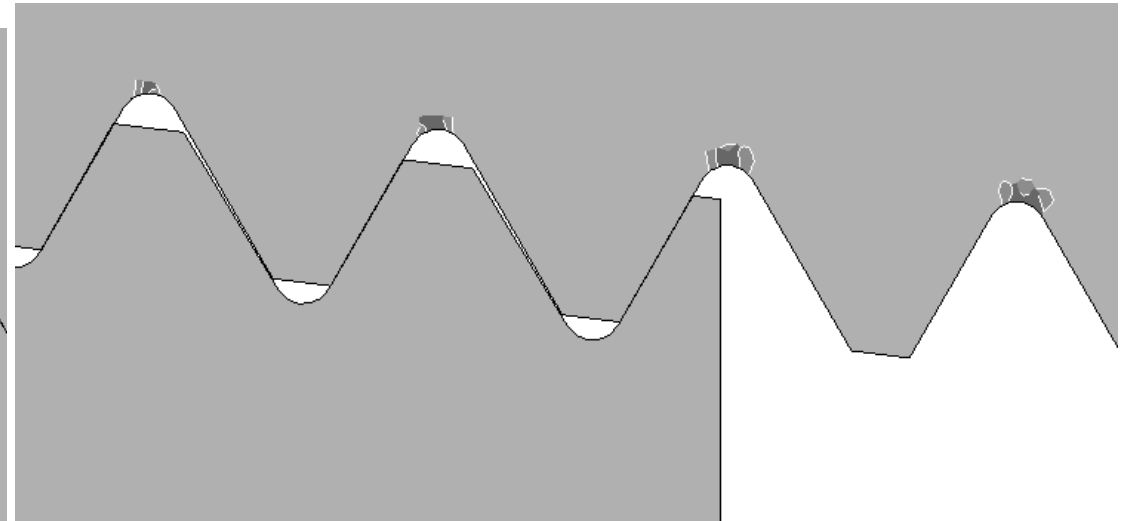
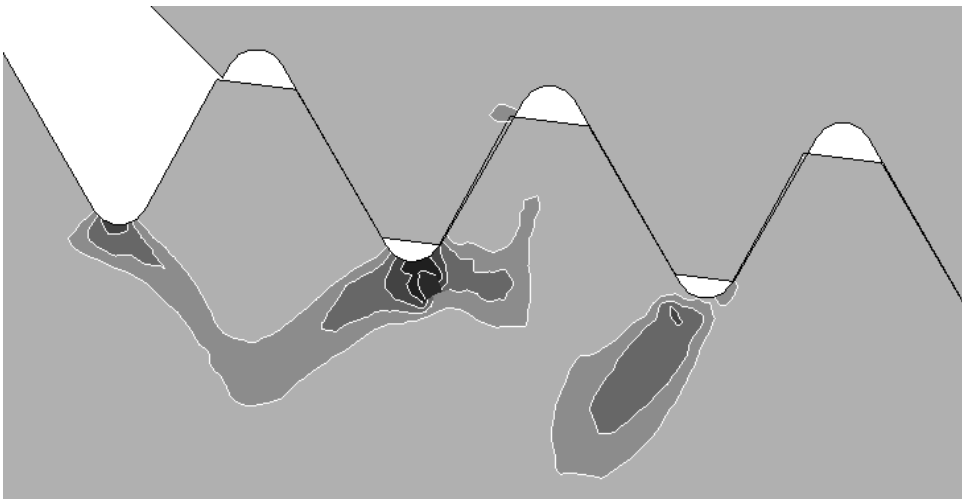
a



b



c



d

Fig. 11 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for pairs (x_1, x_2) (case IV):
a – $(+0.1, +0.1)$, b – $(-0.1, -0.1)$, c – $(+0.1, -0.1)$, d – $(-0.1, +0.1)$

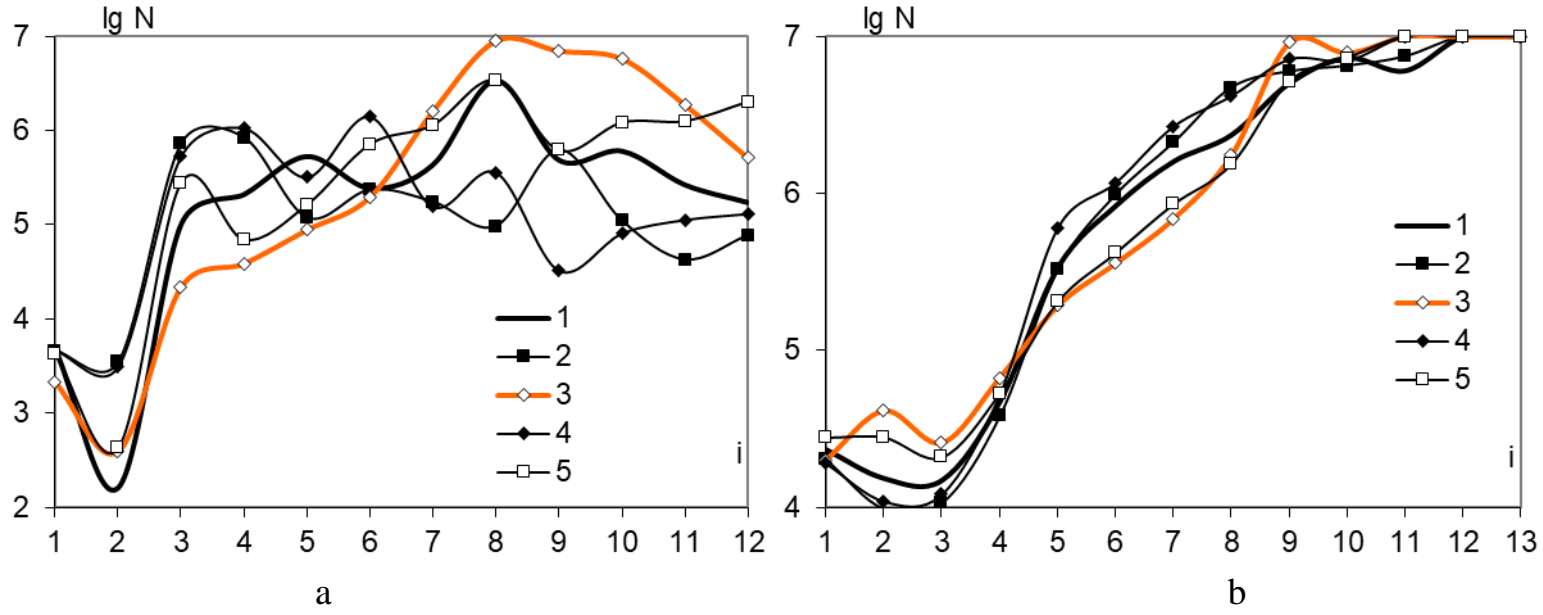


Fig. 12 Values of $\lg N$ in roots i of pin (a, c) and box (b, d) threads for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case IV): 1 – $(0, 0)$, 2 – $(+0.1, +0.1)$, 3 – $(-0.1, -0.1)$, 4 – $(+0.1, -0.1)$, 5 – $(-0.1, +0.1)$

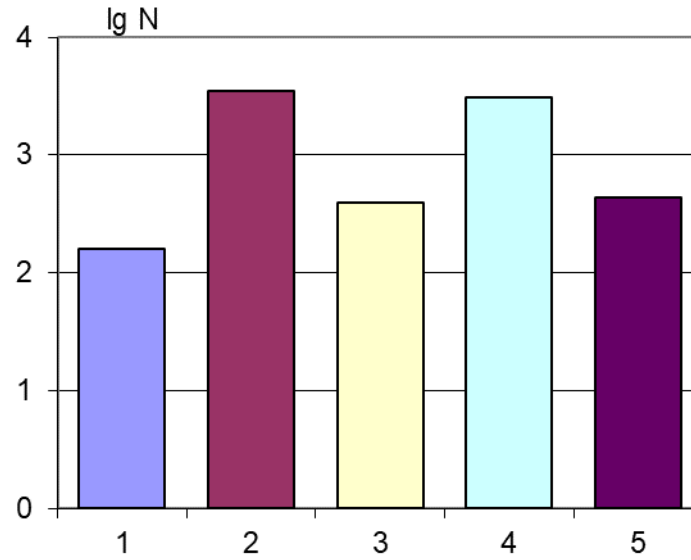
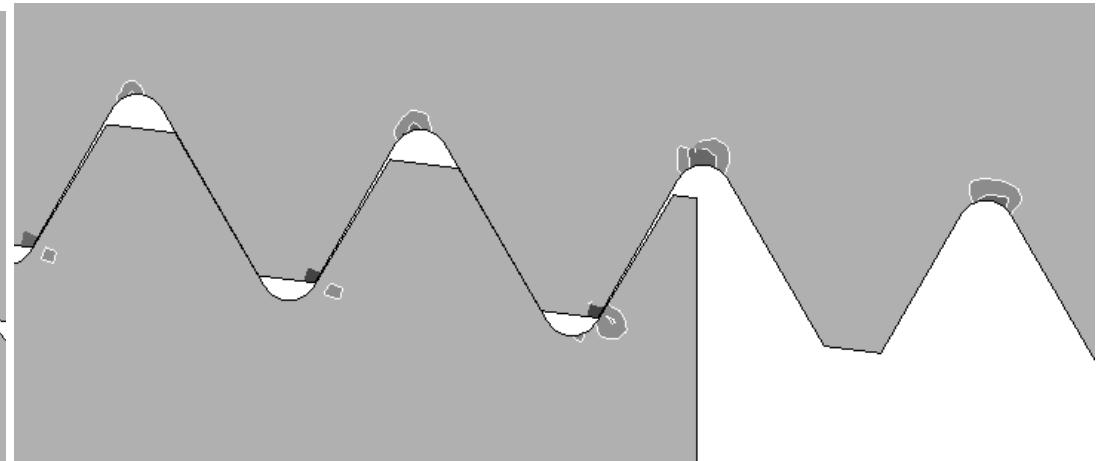
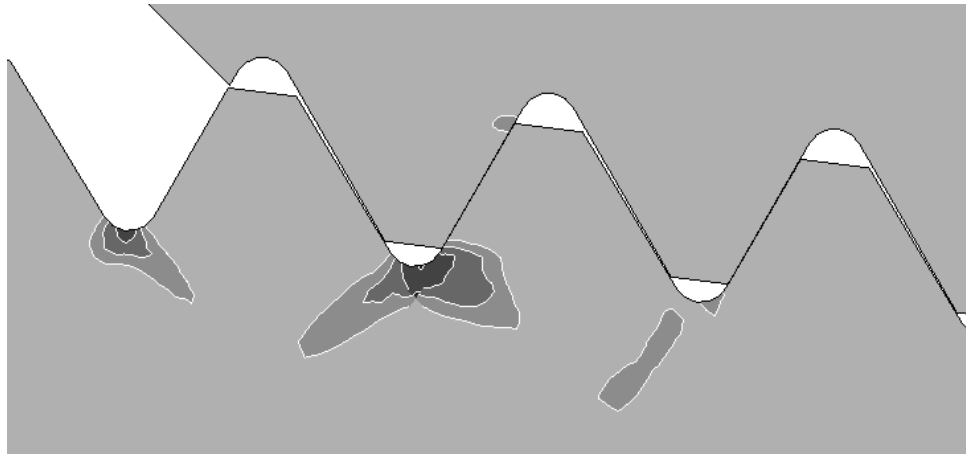
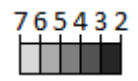
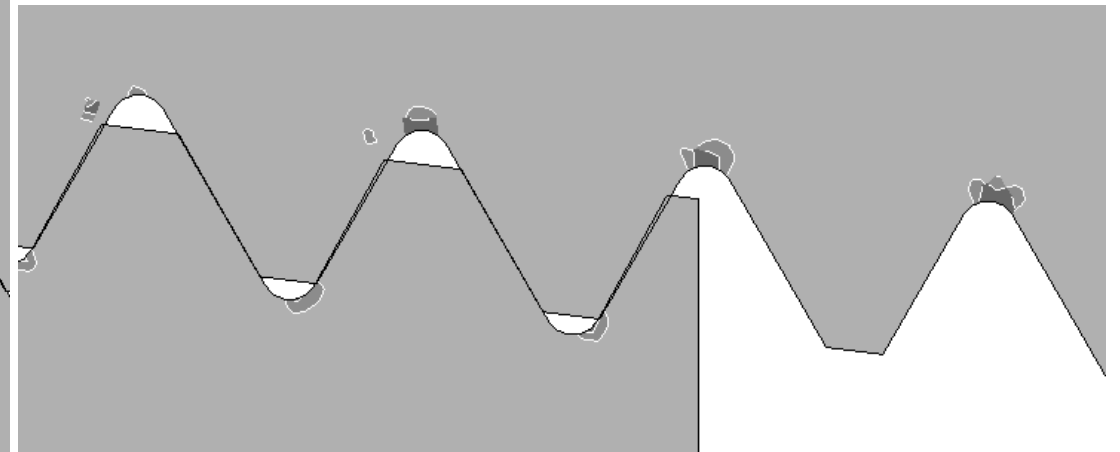
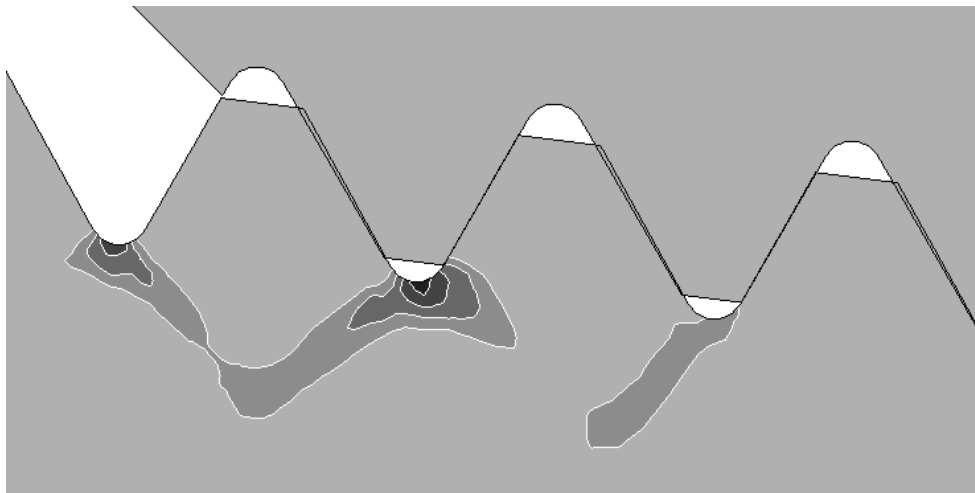


Fig. 13 Values of $\lg N$ in the root 2 of the pin thread for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case IV): 1 – $(0, 0)$, 2 – $(+0.1, +0.1)$, 3 – $(-0.1, -0.1)$, 4 – $(+0.1, -0.1)$, 5 – $(-0.1, +0.1)$

Case V



a



b

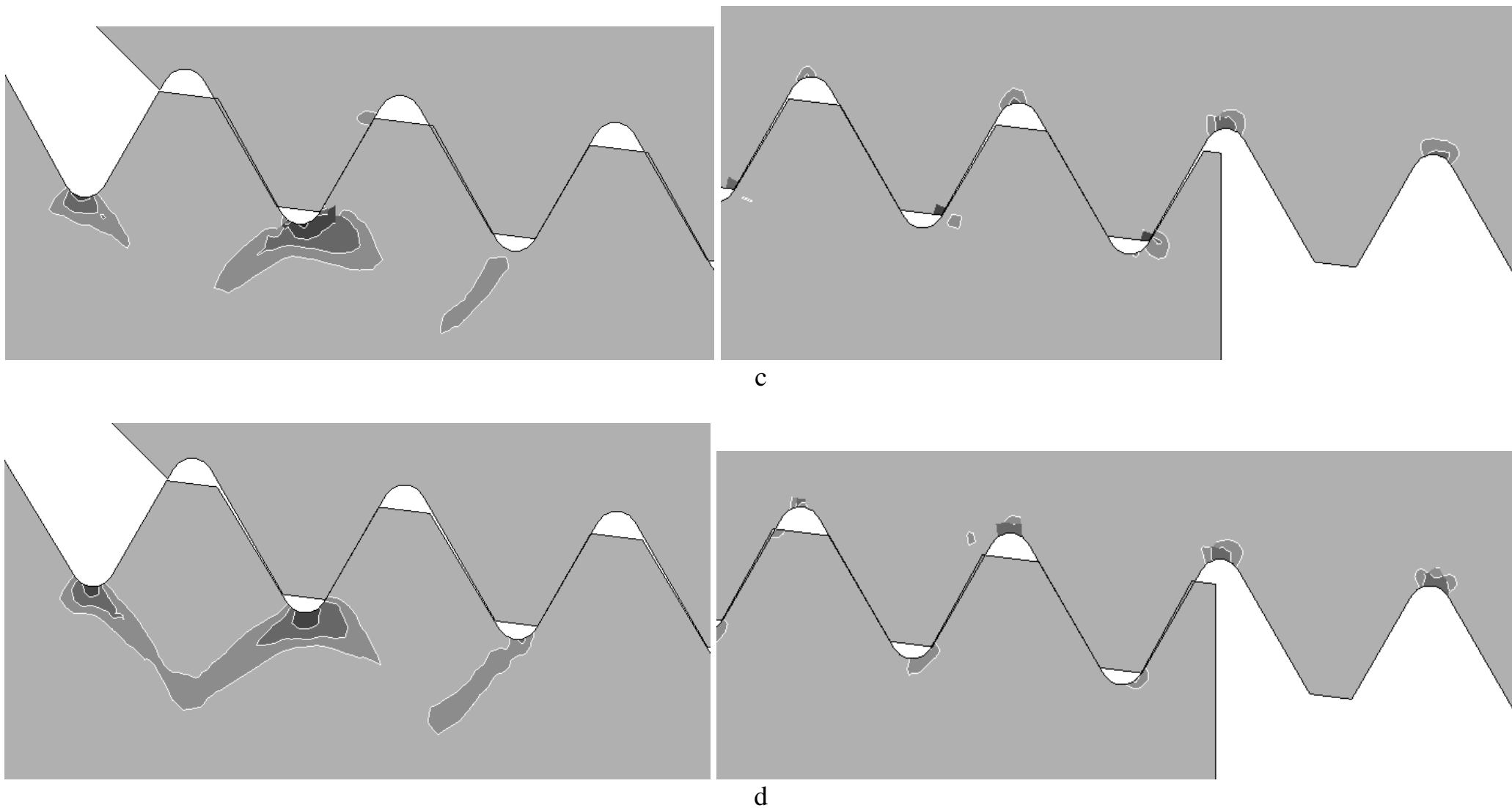


Fig. 14 Distribution of $\lg N$ in the zone of roots 1 (left) and 12 (right) of the pin for pairs (x_1, x_2) (case V):
a – $(+0.1, +0.1)$, b – $(-0.1, -0.1)$, c – $(+0.1, -0.1)$, d – $(-0.1, +0.1)$

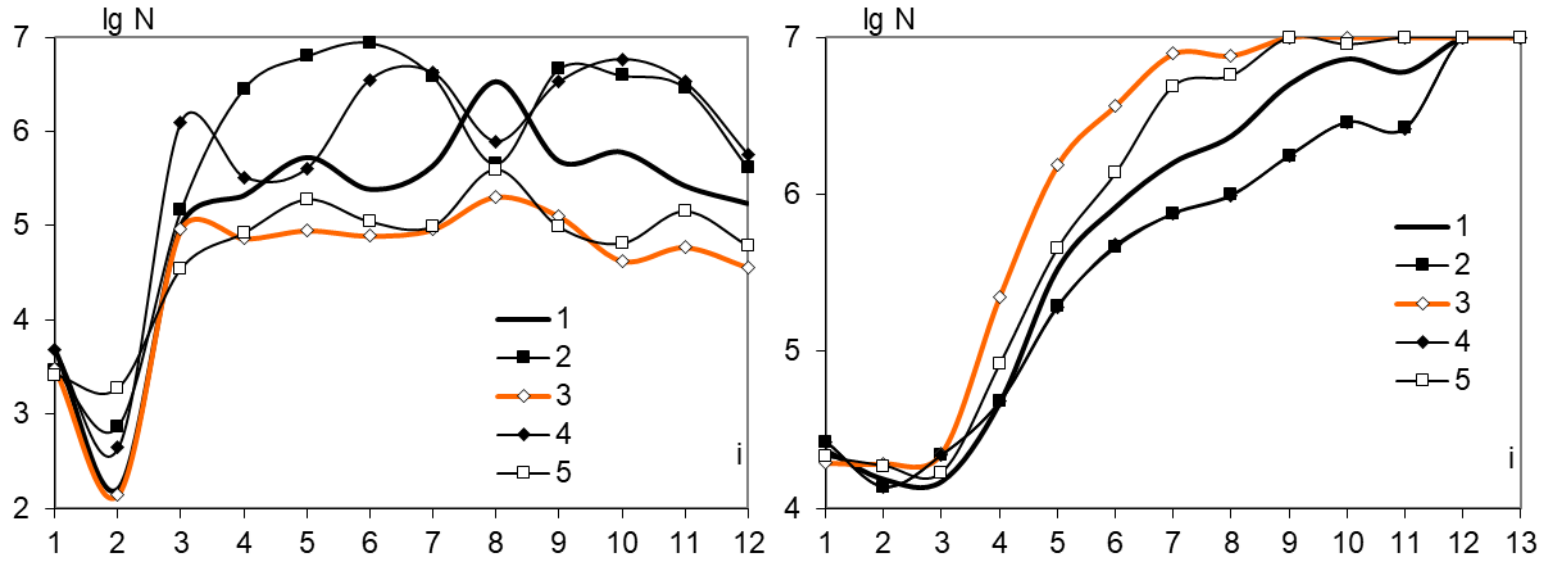


Fig. 15 Values of $\lg N$ in roots i of pin (a, c) and box (b, d) threads for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case V): 1 – $(0, 0)$, 2 – $(+0.1, +0.1)$, 3 – $(-0.1, -0.1)$, 4 – $(+0.1, -0.1)$, 5 – $(-0.1, +0.1)$

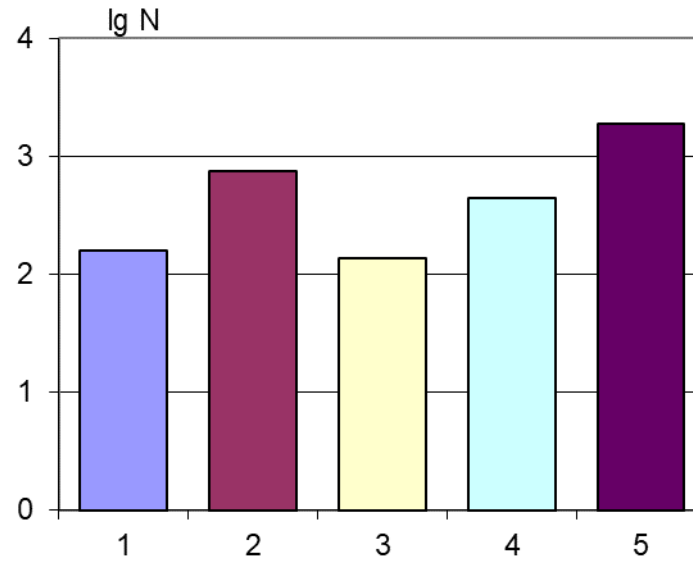


Fig. 16 Values of $\lg N$ in the root 2 of the pin thread for pairs $(\Delta\varphi_1, \Delta\varphi_2)$ (case V): 1 – $(0, 0)$, 2 – $(+0.1, +0.1)$, 3 – $(-0.1, -0.1)$, 4 – $(+0.1, -0.1)$, 5 – $(-0.1, +0.1)$