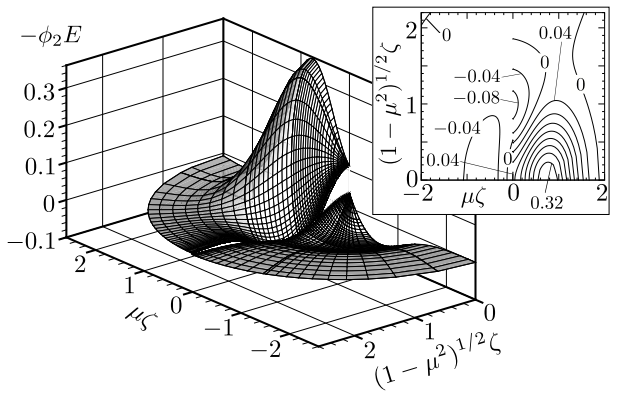
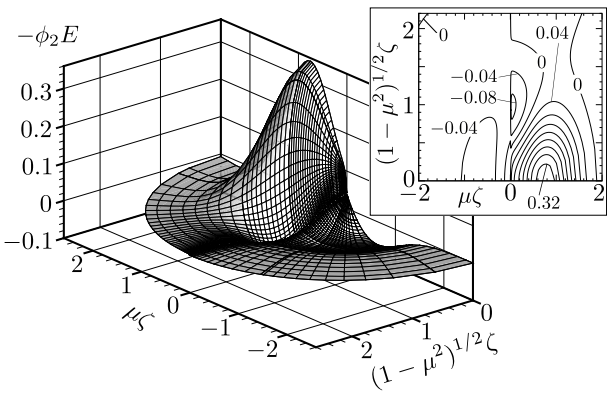
Figures 41–51

Shigeru Takata and Masanari Hattori

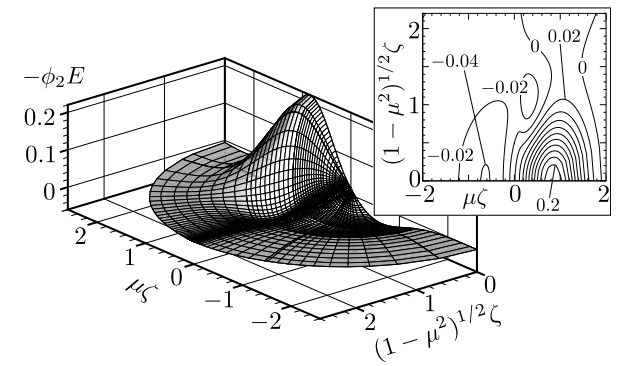
See `Note_V3.pdf` for the explanation of figures below.



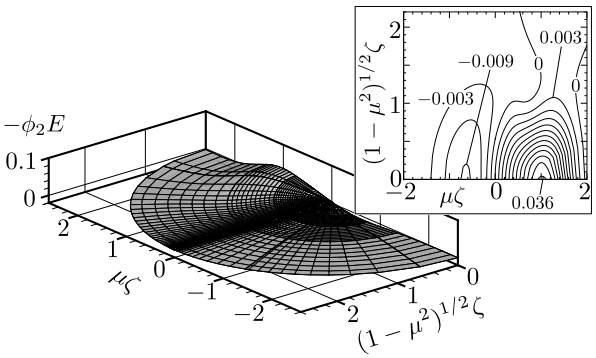
(a) $\eta = 0$



(b) $\eta = 0.015$

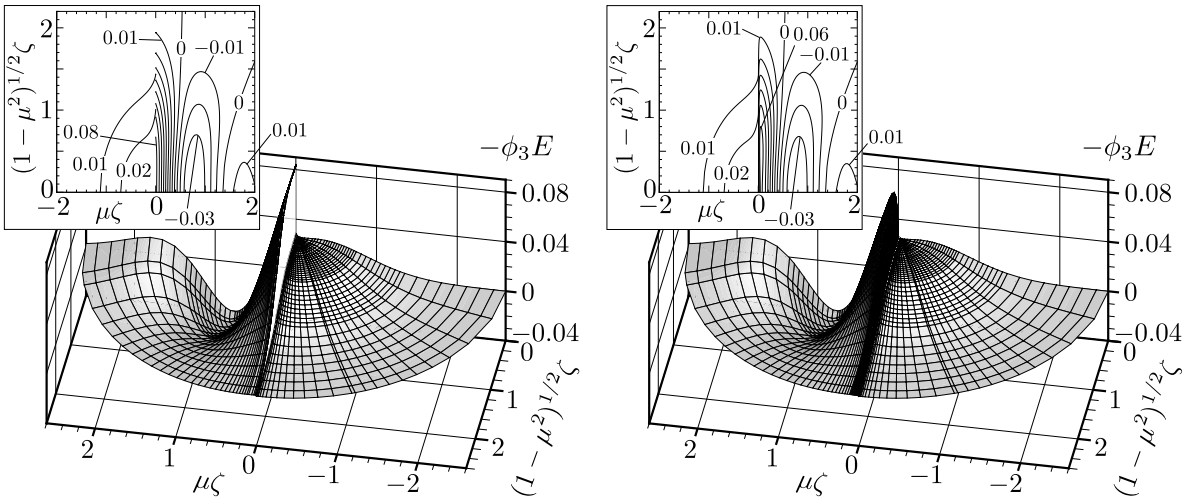


(c) $\eta = 0.58$



(d) $\eta = 3.0$

Figure 41: $\phi_2 E$ for the Shakhov model ($\mathrm{Pr} = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.04 in (a) and (b), 0.02 in (c), and 0.003 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



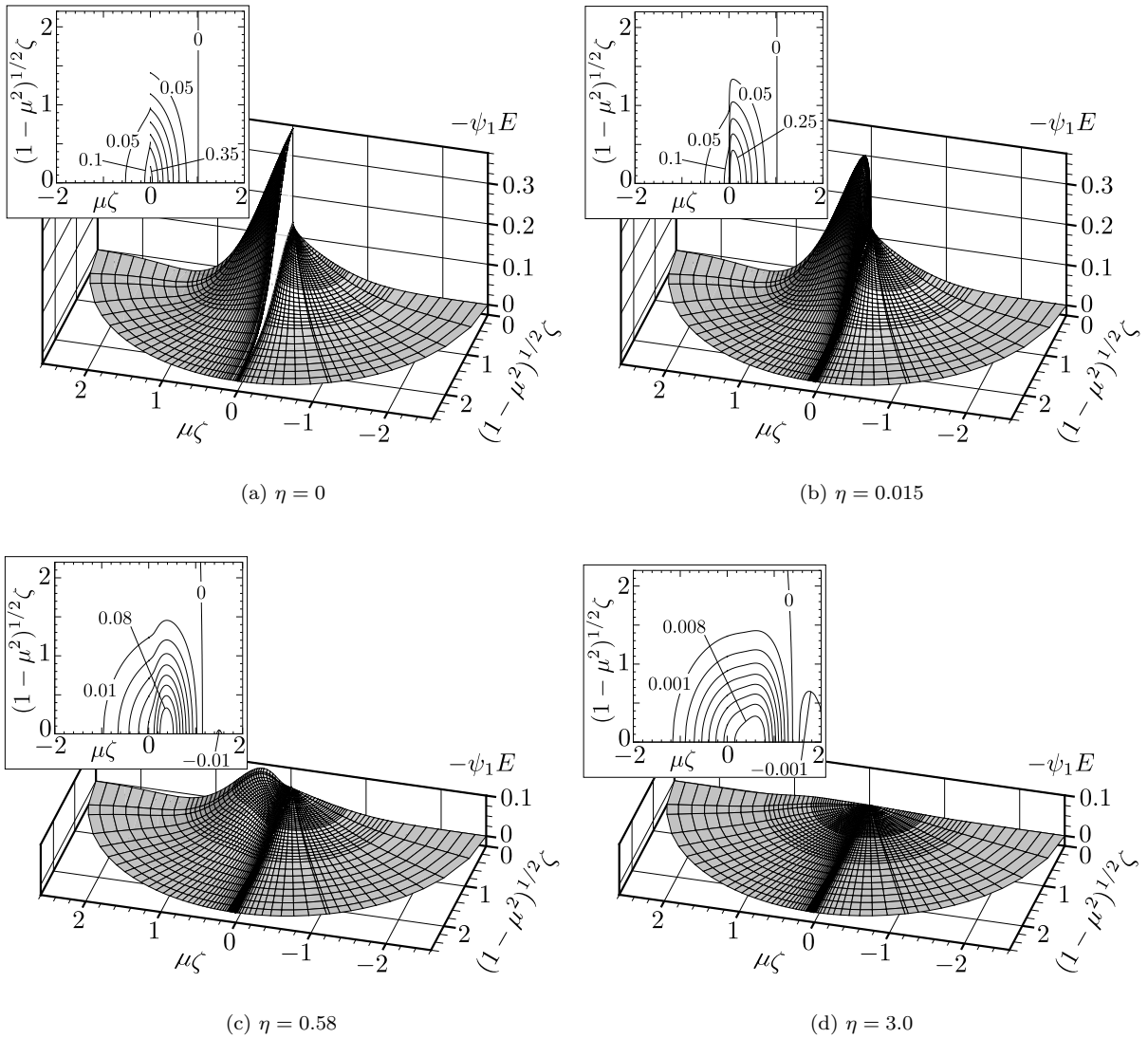
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 42: $\phi_3 E$ for the Shakhov model (Pr = 2/3) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.01 in (a) and (b), 0.003 in (c), and 0.0005 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



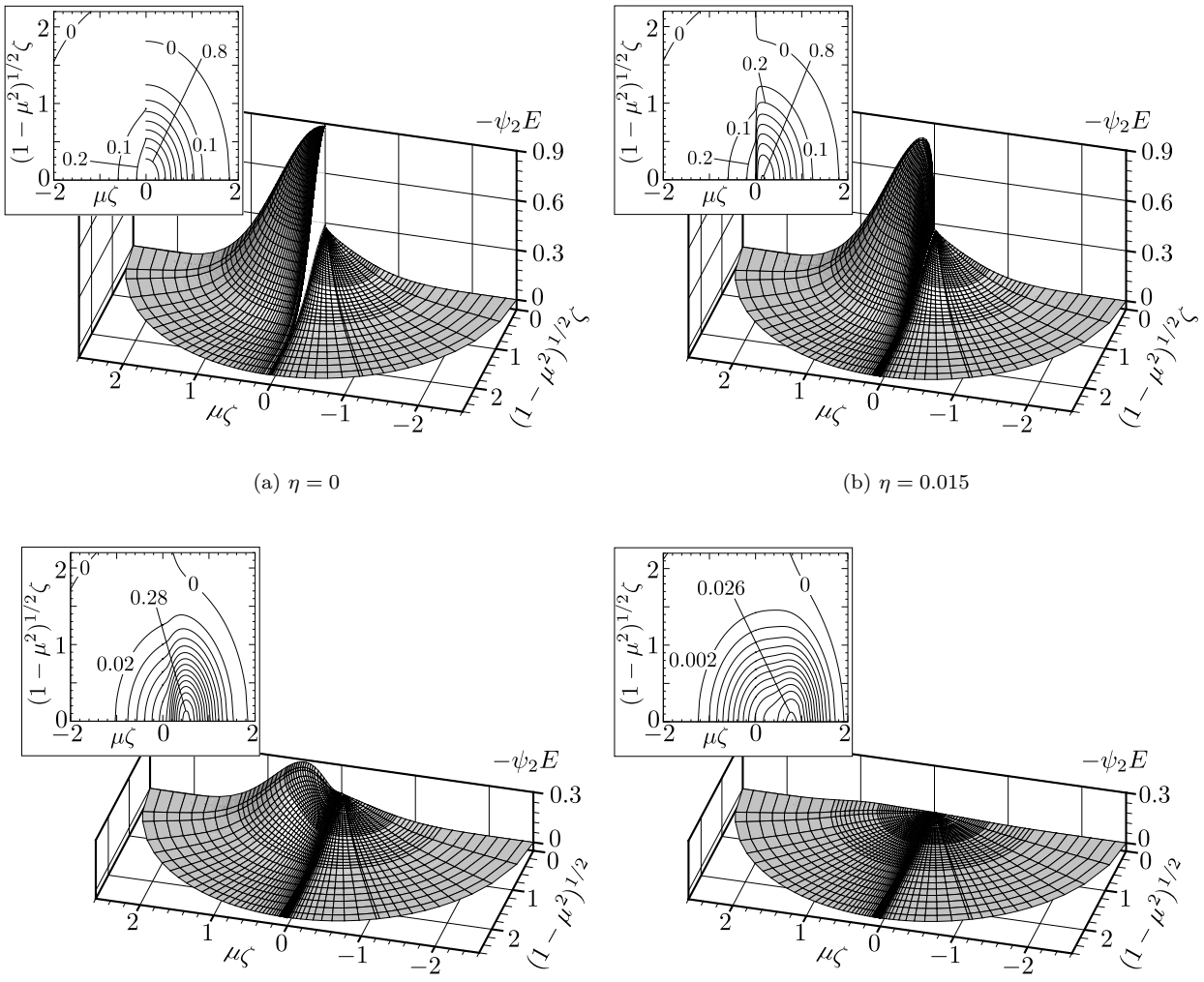
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 43: $\psi_1 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.05 in (a) and (b), 0.01 in (c), and 0.001 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



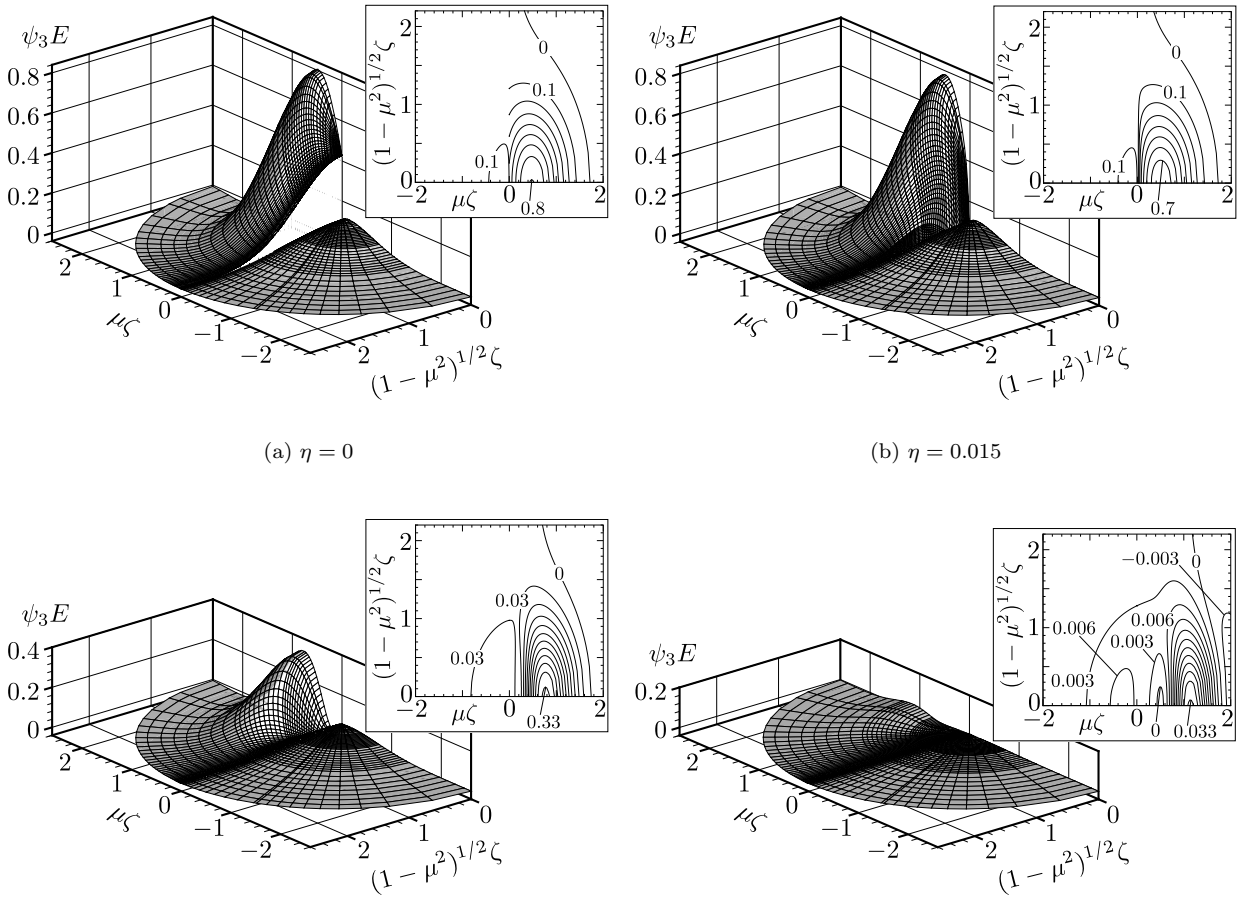
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 44: $\psi_2 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.1 in (a) and (b), 0.02 in (c), and 0.002 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



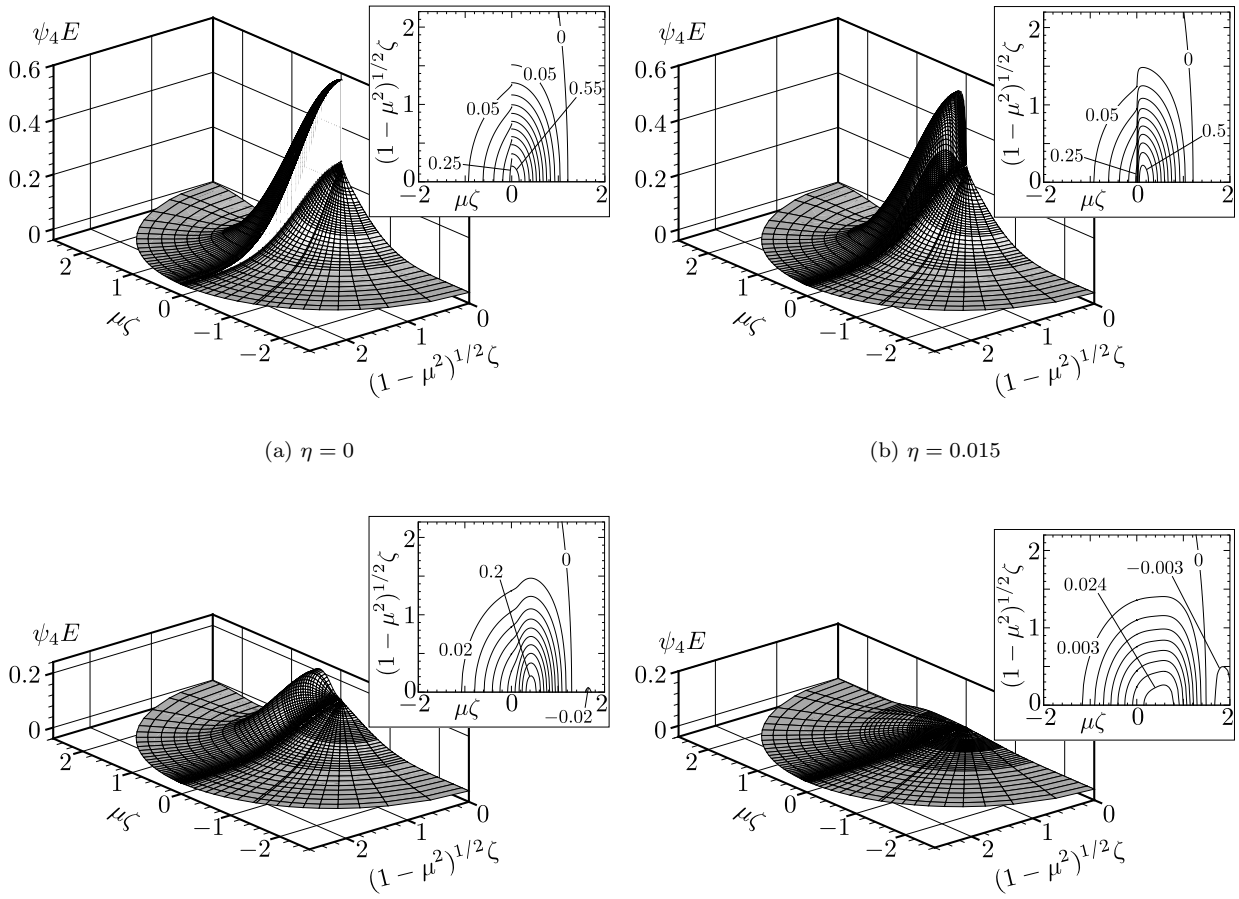
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 45: $\psi_3 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.1 in (a), 0.05 in (b), 0.03 in (c), and 0.003 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



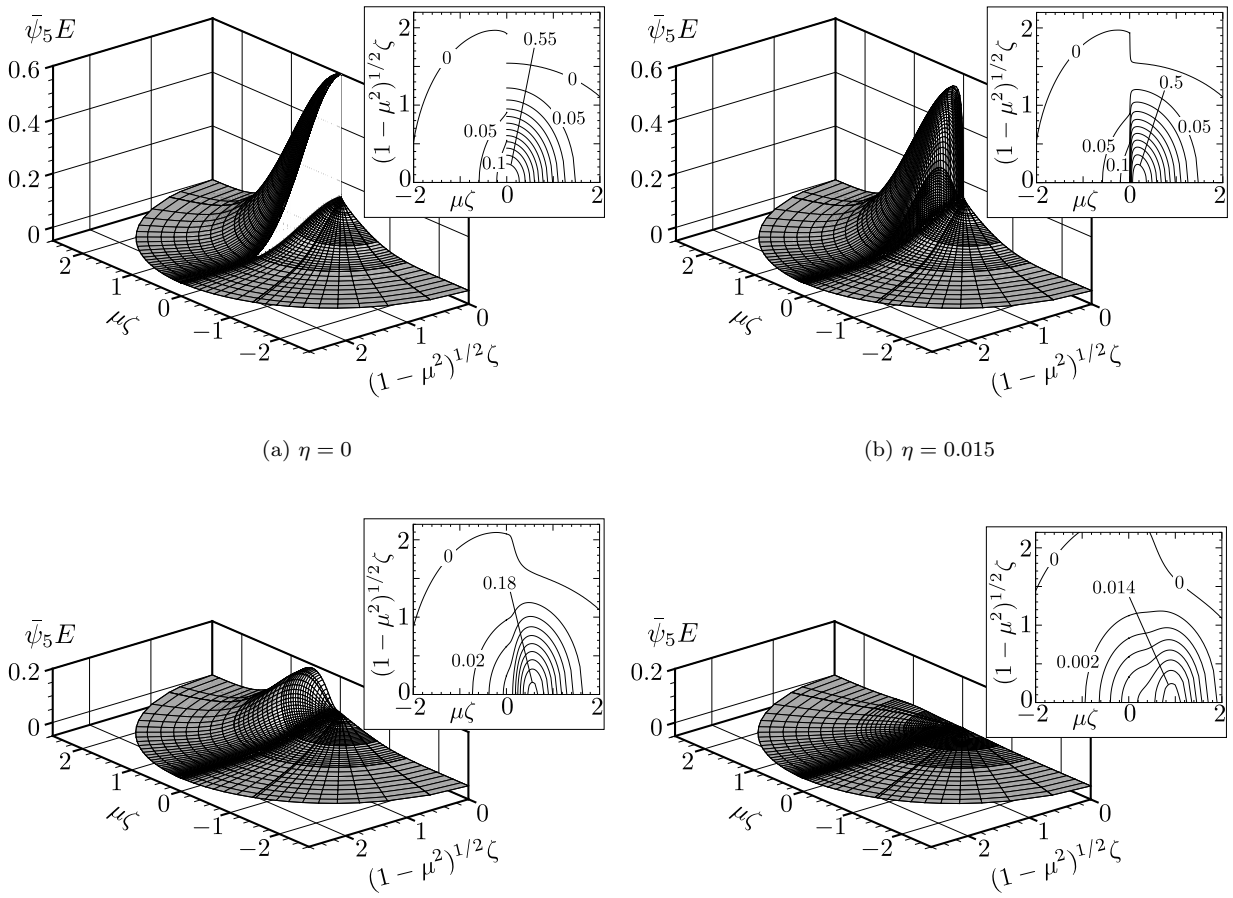
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 46: $\psi_4 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.05 in (a) and (b), 0.02 in (c), and 0.003 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



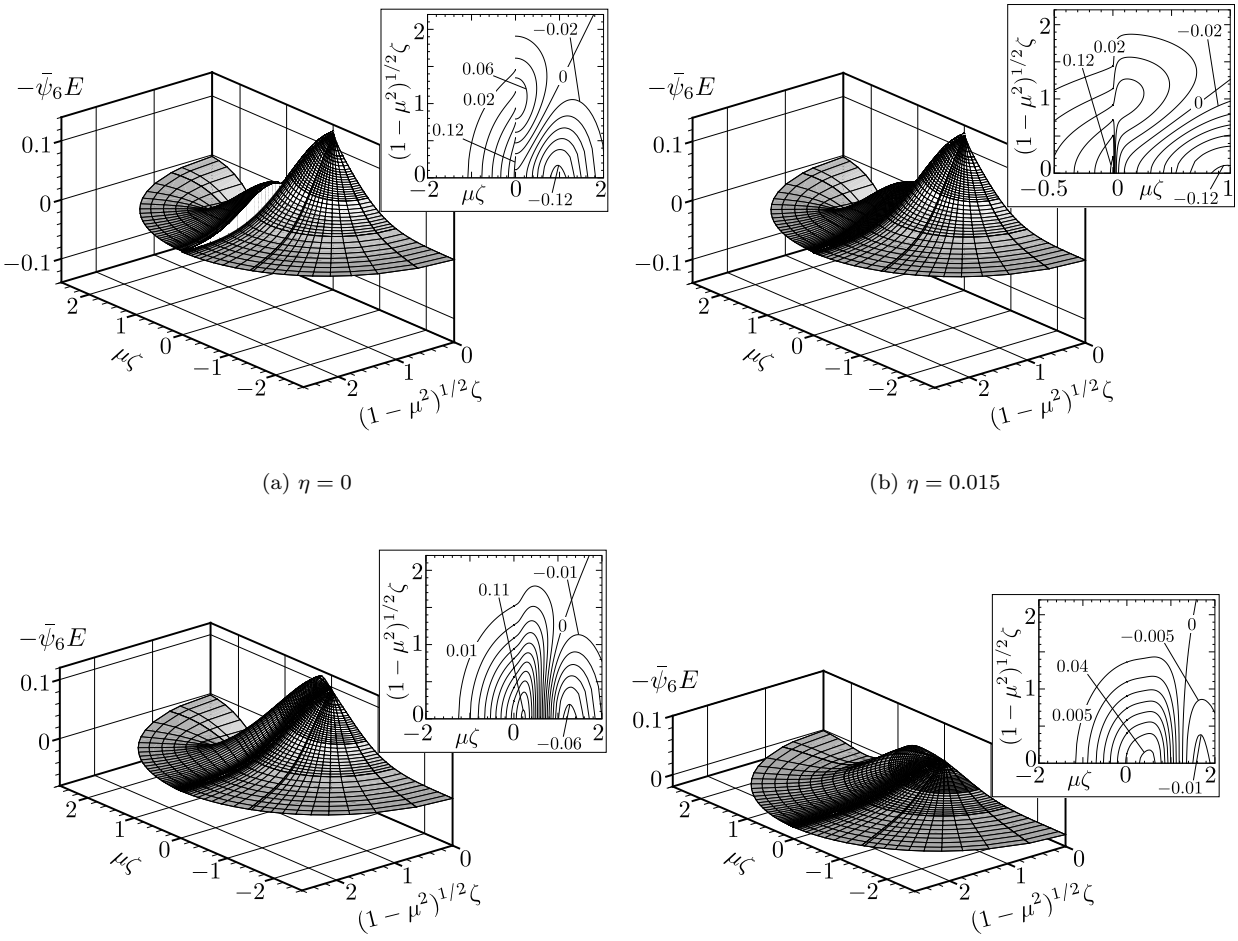
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 47: $\bar{\psi}_5 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.05 in (a) and (b), 0.02 in (c), and 0.002 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



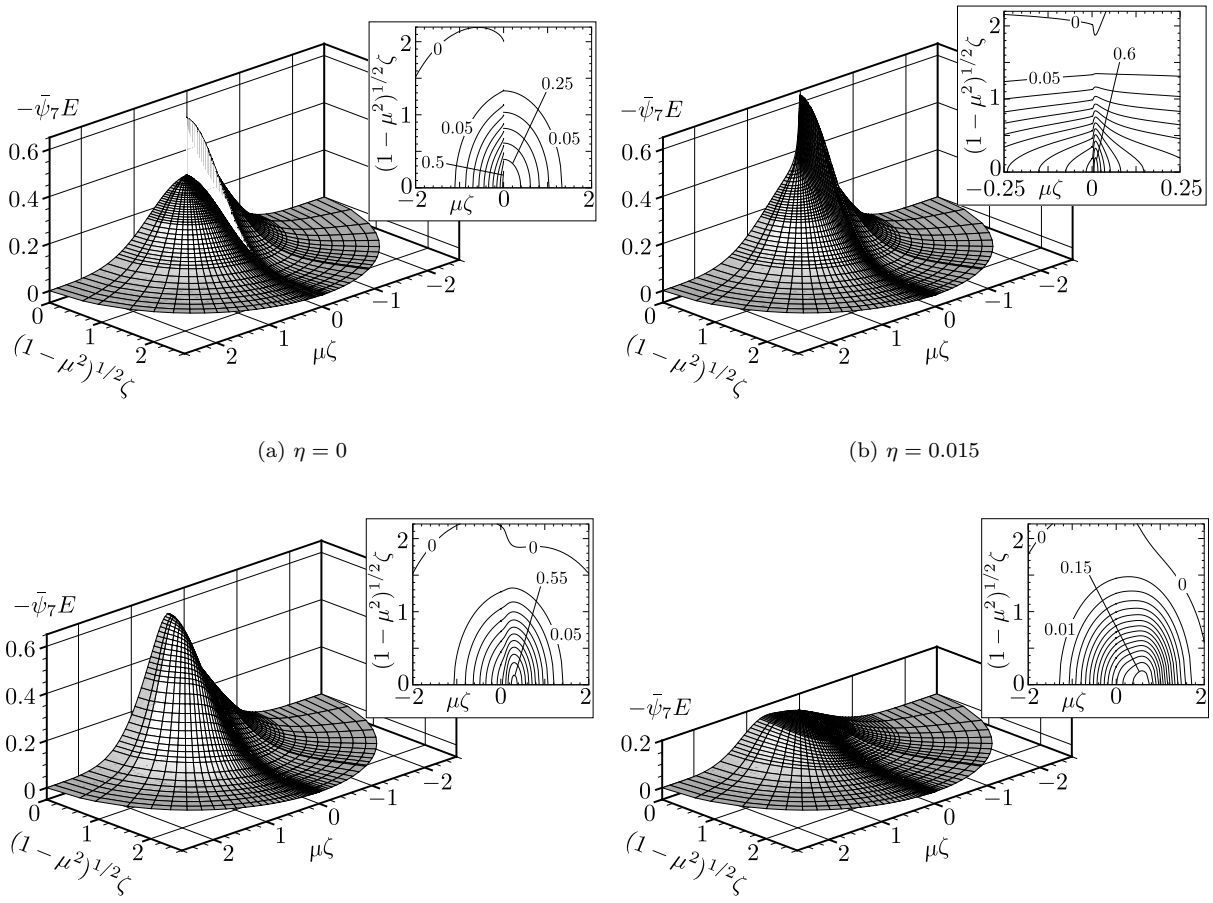
(a) $\eta = 0$

(b) $\eta = 0.015$

(c) $\eta = 0.58$

(d) $\eta = 3.0$

Figure 48: $\bar{\psi}_6 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.02 in (a) and (b), 0.01 in (c), and 0.005 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



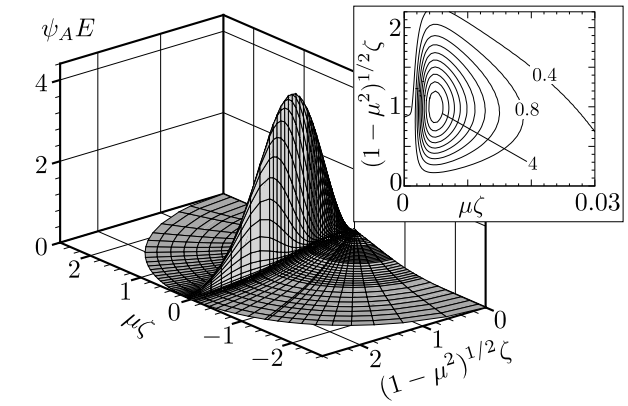
(a) $\eta = 0$

(b) $\eta = 0.015$

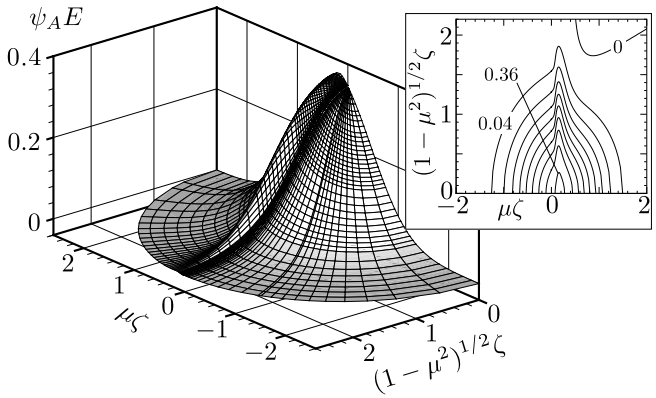
(c) $\eta = 0.58$

(d) $\eta = 3.0$

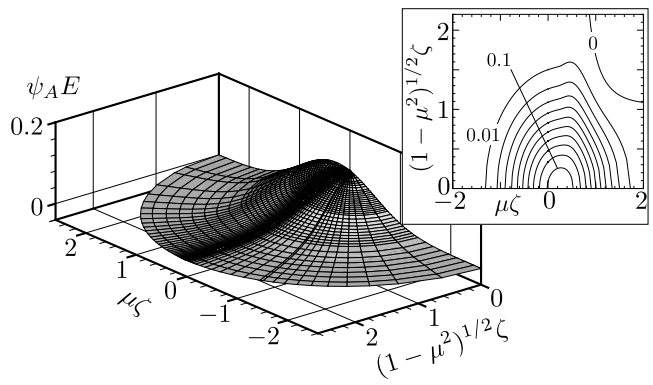
Figure 49: $\bar{\psi}_7 E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at four spatial points. (a) $\eta = 0$, (b) $\eta = 0.015$, (c) $\eta = 0.58$, and (d) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.05 in (a), (b), and (c) and 0.01 in (d). The white vertical surface at $\mu\zeta = 0$ in (a) shows the discontinuity.



(a) $\eta = 0.015$

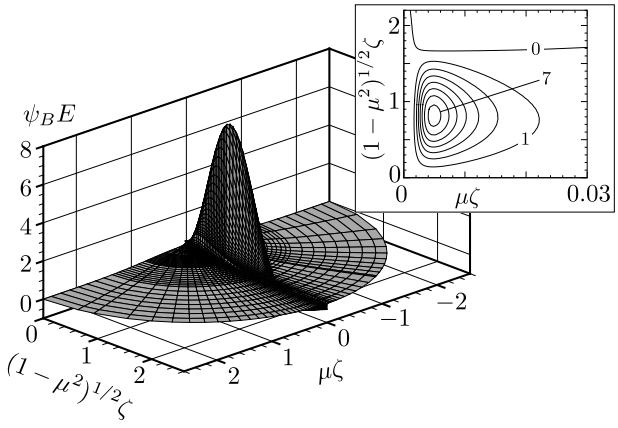


(b) $\eta = 0.58$

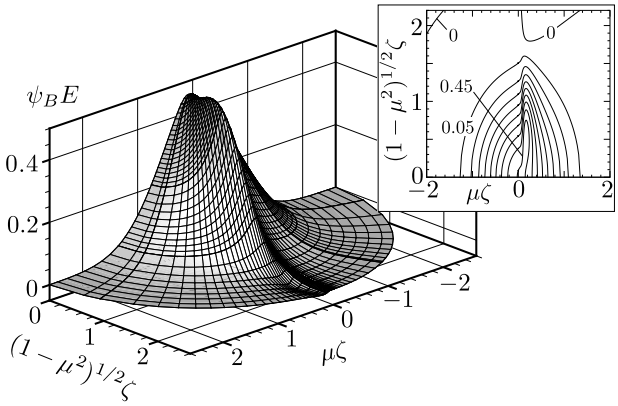


(c) $\eta = 3.0$

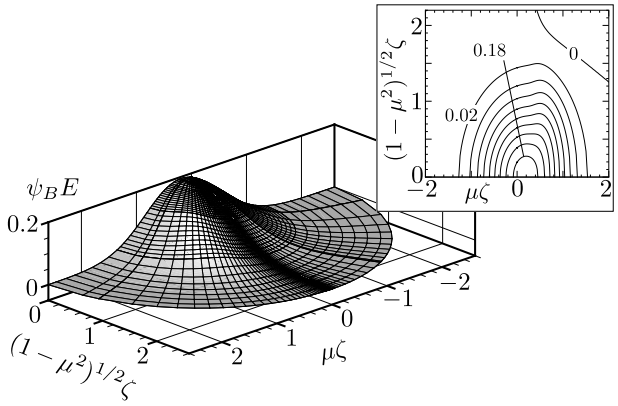
Figure 50: $\psi_A E$ for the Shakhov model ($\Pr = 2/3$) under the diffuse reflection condition and its contour plots at three spatial points. (a) $\eta = 0.015$, (b) $\eta = 0.58$, and (c) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 0.4 in (a), 0.04 in (b), and 0.01 in (c).



(a) $\eta = 0.015$



(b) $\eta = 0.58$



(c) $\eta = 3.0$

Figure 51: $\psi_B E$ for the Shakhov model (Pr = 2/3) under the diffuse reflection condition and its contour plots at three spatial points. (a) $\eta = 0.015$, (b) $\eta = 0.58$, and (c) $\eta = 3.0$. In the contour plots, the curves are drawn with the intervals 1 in (a), 0.05 in (b), and 0.02 in (c).