## 0.1 Parameter Calibration

refazer as tabelas de calibração do nk model...

Table 1: Parameter Calibration

| Parameter | Definition | Calibration |
|:---:|:---|:---:|
| $\alpha$ | capital elasticity of production | 0.35 |
| $\beta$ | intertemporal discount factor | 0.985 |
| $\gamma_R$ | interest-rate smoothing parameter | 0.79 |
| $\gamma_\pi$ | interest-rate sensitivity in relation to inflation | 2.43 |
| $\gamma_Y$ | interest-rate sensitivity in relation to product | 0.16 |
| $\delta$ | capital depreciation rate | 0.025 |
| $\theta$ | price stickness parameter | 0.8 |
| $\theta_{C11}$ | weight of good 1 in demand of region 1 | 0.4 |
| $\theta_{C12}$ | weight of good 2 in demand of region 1 | 0.4 |
| $\theta_{C21}$ | weight of good 1 in demand of region 2 | 0.4 |
| $\theta_{C22}$ | weight of good 2 in demand of region 2 | 0.4 |
| $\theta_{PY1}$ | weight of region 1 in gross domestic product | 0.3 |
| $\theta_{Y1}$ | weight of region 1 in total production | 0.3 |
| $\rho_{A1}$ | autoregressive parameter of productivity in region 1 | 0.95 |
| $\rho_{A2}$ | autoregressive parameter of productivity in region 2 | 0.95 |
| $\rho_M$ | autoregressive parameter of monetary policy | 0.9 |
| $\sigma$ | relative risk aversion coefficient | 2 |
| $\phi$ | relative labor weight in utility | 1 |
| $\varphi$ | marginal disutility of labor supply | 1.5 |
| $\psi$ | elasticity of substitution between intermediate goods | 8 |
| $\omega_{11}$ | weight of good 1 in consumption composition of region 1 | 0.5 |
| $\omega_{21}$ | weight of good 1 in consumption composition of region 2 | 0.5 |

*Sources*: The Author and **costa_junior_understanding_2016**

## 0.2 Variables at Steady State

Table 2: Variables at Steady State

| Variable | Steady State Value |
|:---:|:---:|
| $\langle P \quad P_1 \quad P_2 \quad Z_{A1} \quad Z_{A2} \quad Z_M \quad \pi \quad \pi_1 \quad \pi_2 \rangle$ | $\vec{\mathbf{1}}$ |
| $\langle \varepsilon_{A1} \quad \varepsilon_{A2} \quad \varepsilon_M \rangle$ | $\vec{\mathbf{0}}$ |
| $R$ | 0.0402 |
| $R_K$ | 0.0402 |
| $\Lambda$ | 0.8750 |
| $W$ | 1.6967 |
| $\langle a_1 \quad a_2 \rangle$ | $\langle a_1 \quad a_2 \rangle$ |
| $\langle b_1 \quad b_2 \rangle$ | $\langle b_1 \quad b_2 \rangle$ |
| $\langle Y_1 \quad Y_2 \rangle$ | $\langle Y_1 \quad Y_2 \rangle$ |
| $\langle I_1 \quad I_2 \rangle$ | $\langle I_1 \quad I_2 \rangle$ |
| $\langle C_1 \quad C_2 \rangle$ | $\langle C_1 \quad C_2 \rangle$ |
| $\langle \mathcal{E}_1 \quad \mathcal{E}_2 \rangle$ | $\langle \mathcal{E}_1 \quad \mathcal{E}_2 \rangle$ |
| $\langle C_{11} \quad C_{12} \rangle$ | $\langle C_{11} \quad C_{12} \rangle$ |
| $\langle C_{21} \quad C_{22} \rangle$ | $\langle C_{21} \quad C_{22} \rangle$ |
| $\langle K_1 \quad K_2 \rangle$ | $\langle K_1 \quad K_2 \rangle$ |
| $\langle L_1 \quad L_2 \rangle$ | $\langle L_1 \quad L_2 \rangle$ |

*Source*: The Author.