

# Index

## A

Allocated efficiency, 57

## C

Complement, 4, 10, 32, 34, 138, 158, 161, 190

Complimentarity, 4, 5, 16, 190

Cost functions, 35, 38

## D

Divisia, 37

## E

Efficiency, 2, 3, 5–8, 10, 16, 22, 27, 37–39, 56, 160, 173, 190, 193

Elasticity, 4, 10–12, 32, 34, 35, 40, 41, 73, 81, 109, 119, 133, 135, 138, 151, 157, 171, 173–175, 177, 192

Energy consumption, 1, 5–7, 9, 12, 14, 15, 22, 24, 26, 27, 78–80, 83, 103, 172, 174–176, 185, 189

Energy intensity, 2, 14–16, 27, 31, 36, 37, 39, 103, 174

Energy policy, 8, 22, 27, 78

EUKLEMS, 7, 66, 90, 91, 106, 191

## F

Factor demand, 34, 40, 75, 84, 133

Factor requirement, 4, 14, 32, 78, 190

FGLS, 72, 73, 151–154, 159, 163

Functional form, 14, 15, 70, 77, 113, 130, 139, 194

## G

GLS, 72, 82

Growth, 1, 13, 23, 33, 89, 105, 120, 130, 134, 175, 192

## H

Harvey, 79, 183

Harvey test, 157

Heterogeneity, 6, 8, 14, 41, 54, 63, 66, 67, 69, 84, 90, 105, 107, 139, 152, 191, 192

Heteroscedastic, 67, 73

Heteroskedasticity, 14, 47, 50, 51, 55, 59, 66, 67, 72, 80, 82, 84, 90, 107, 153, 159, 163, 191, 192

Homoskedastic, 64, 67, 73

Homoskedasticity, 50, 51, 153

## I

Industrial sector, 2, 4–6, 16, 24, 26, 28, 34, 41, 112, 119, 121, 129, 135, 138, 161, 162, 171, 184, 185, 189

Inefficiency, 10, 56, 69, 74, 80, 152, 193

## J

Just and Pope, 47, 52, 54, 55, 57, 59, 67, 70, 77, 78, 80, 82, 191, 194

## M

Marginal effects, 78, 83, 159, 162, 179, 180, 186

Marginal risk, 55, 58, 69, 159, 160, 172

Marginal variance, 80, 156, 159, 162

## P

Panel data, 5, 7, 14, 16, 36, 63, 65, 68, 84, 91, 135, 191, 193

Producer, 6, 39, 51, 55, 63, 68, 160, 184, 189

Production process, 2, 4, 6, 7, 11, 14, 27, 39, 47, 52, 53, 63, 67, 73, 119, 160, 171, 173, 180, 192, 193

- Production risk, 5, 7, 15, 41, 48, 51, 53–55, 57, 59, 67, 68, 77, 84, 152, 160, 163, 184, 185, 189, 190, 192  
 Production technology, 4, 7, 12, 33, 38, 47, 50, 54, 59, 63, 66, 70, 84, 129, 130, 152, 185, 191, 194  
 Productivity, 2, 11, 13, 66, 90, 171, 175, 176, 185, 190, 191  
 Profit maximization, 31, 39, 57, 76, 190  
 Putty-clay, 35
- Q**
- Quasi-fixed, 41, 42, 78, 79
- R**
- Returns to scale, 11, 70, 81, 83, 109, 117, 121, 171, 179  
 Risk, 7, 15, 50, 51, 53, 54, 57, 58, 67, 84, 110, 152, 156, 157, 160, 162, 171, 176, 180, 183–185, 190, 192, 193  
 Risk averse, 8, 50, 52, 54, 55, 68, 184, 185  
 Risk aversion, 48, 51, 54, 69, 162, 192
- S**
- Scale, 12, 13, 50, 54, 70, 77, 78, 81, 100, 117, 119, 135, 159, 171, 173, 179
- Stochastic, 8, 32, 38, 48, 59, 63, 70, 73, 152, 185, 191, 194  
 Substitutability, 3–5, 11, 15, 16, 32–35, 113, 129, 130, 134, 136, 139, 158, 162, 176, 190  
 Substitute, 4, 5, 10, 33, 34, 36, 40, 138, 161, 177, 190
- T**
- Technical change, 12, 13, 15, 54, 75, 77, 81, 82, 109, 118, 120, 121, 135, 136, 152, 192  
 Translog, 7, 14, 15, 31, 34–36, 57, 70, 71, 76–78, 81, 109, 113, 115, 123, 129, 130, 133, 135, 139, 152, 153, 162, 183, 194
- U**
- Uncertainty, 7, 47, 49, 51, 53, 58, 185, 193
- V**
- Variance, 11, 15, 52, 53, 55, 57, 65, 68, 74, 78, 79, 82, 83, 97, 151, 153, 159, 162, 180, 194  
 Variation, 3, 4, 54, 105, 112, 133, 173, 175, 181, 190, 193