

# 福建土楼与福建土堡建筑形态辨异

## THE DISTINCTIONS OF ARCHITECTURAL MORPHOLOGY BETWEEN TUBAO AND TULOU IN FUJIAN

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Professor of Xiamen University  
Dr. Zhijian Dai

“TuLou” ≈ Earth Building; “TuBao” ≈ Earth Fortress

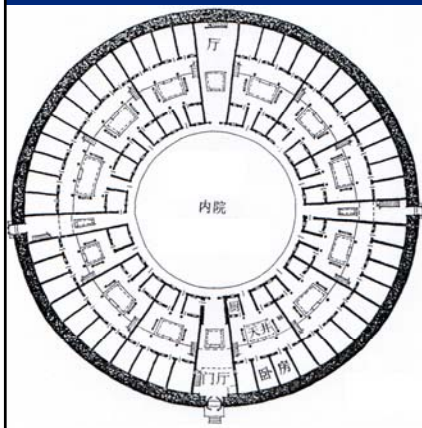
### 福建土楼 FUJIAN TULOU

单元式 --- 闽南土楼

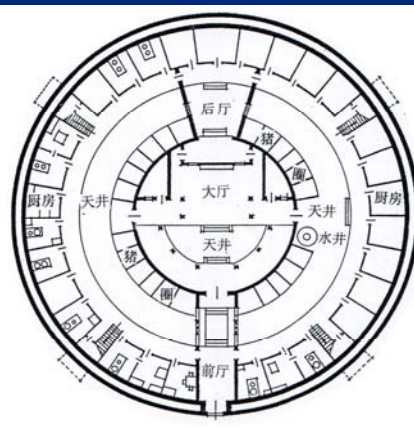
Modular type

通廊式 --- 客家土楼

Gallery type

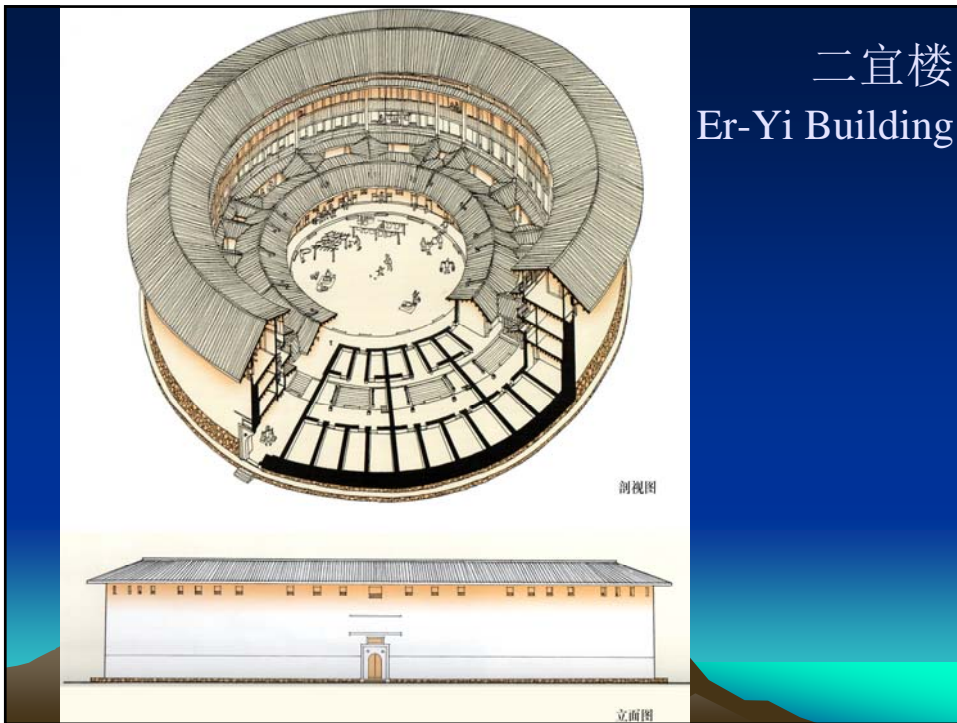


闽南土楼——单元式

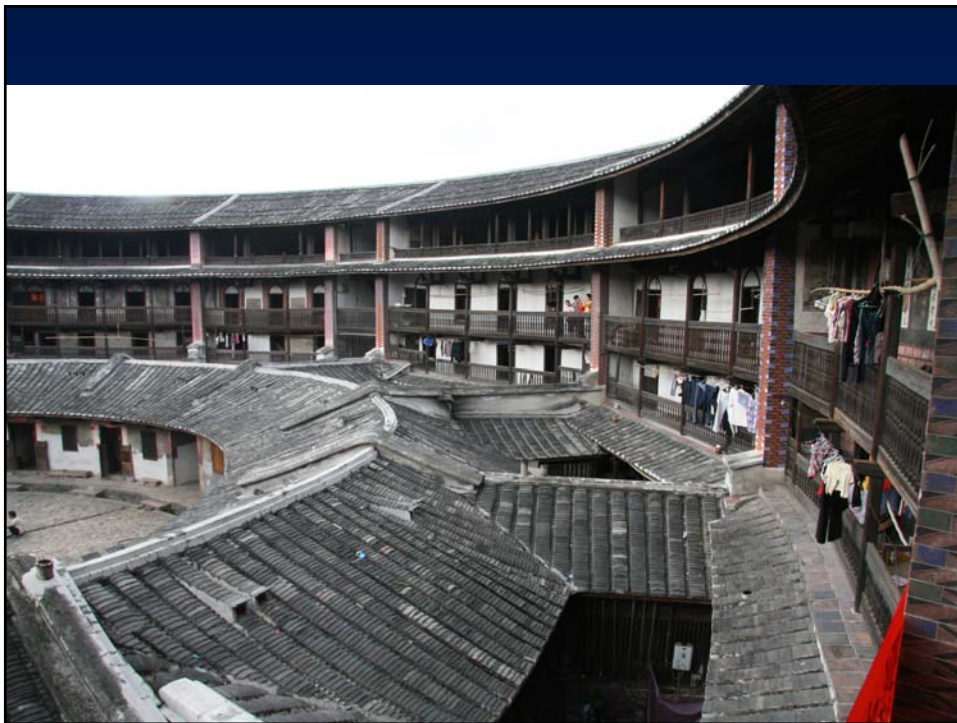
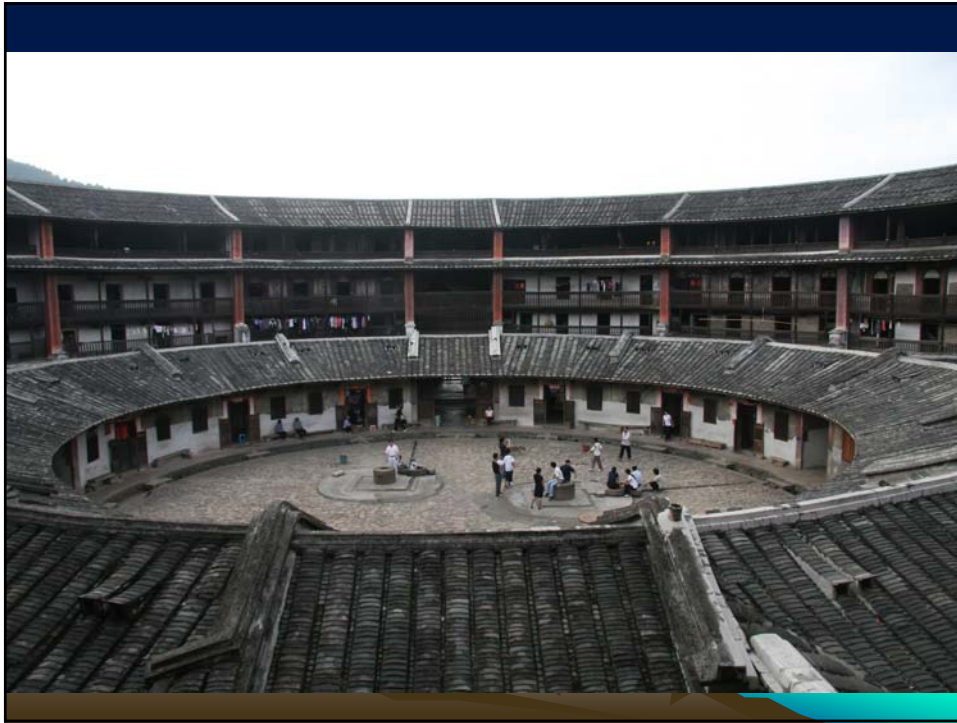


客家土楼——通廊式

# 二宜楼(华安) Er-Yi Building



# 二宜楼 Er-Yi Building





锦江楼(漳浦) Jin-Jiang Building



锦江楼  
Jin-Jiang  
Building

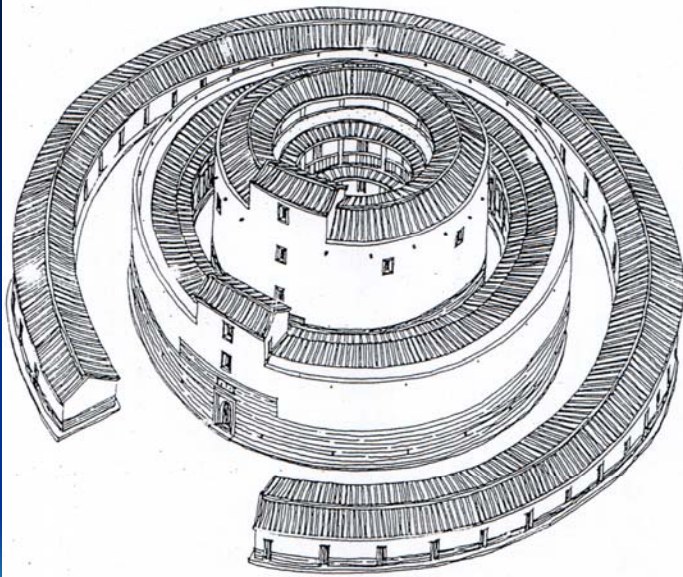


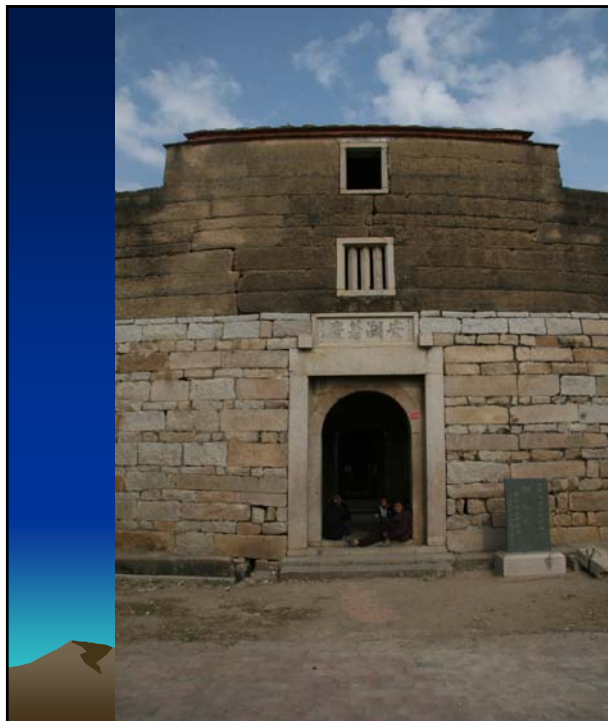
图 7-9 漳浦县深土乡锦江楼鸟瞰图

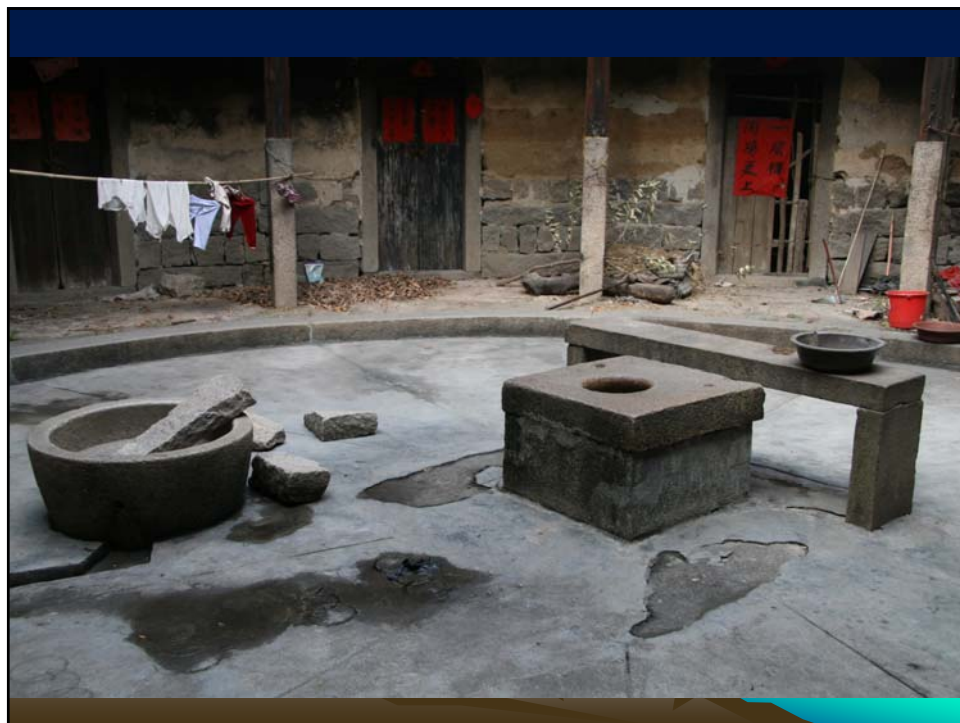
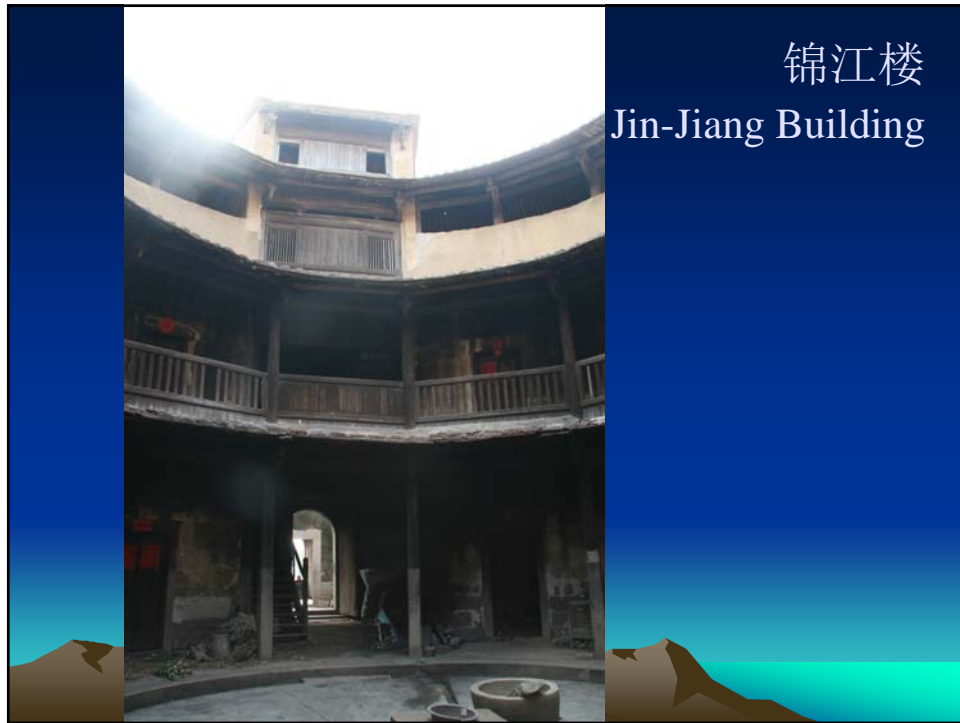


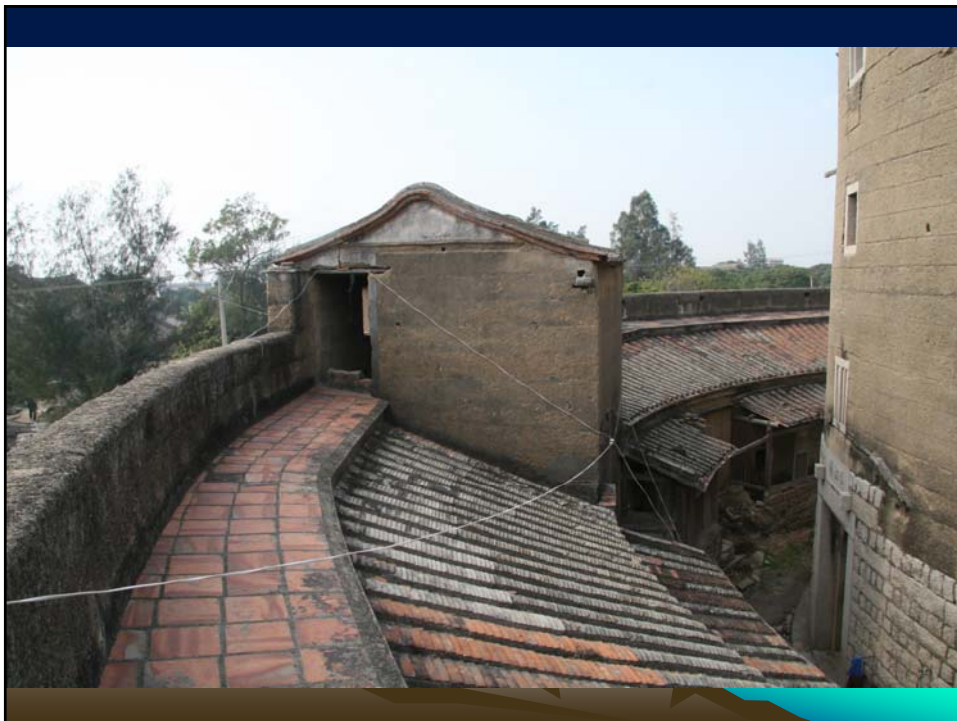
锦江楼  
Jin-Jiang  
Building



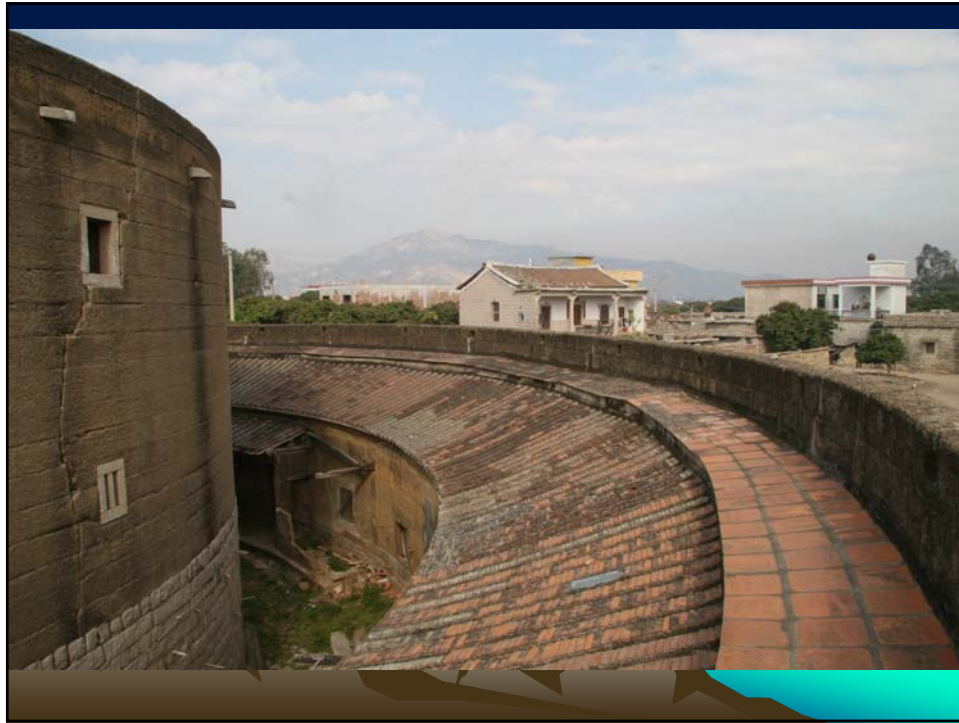
锦江楼  
Jin-Jiang Building







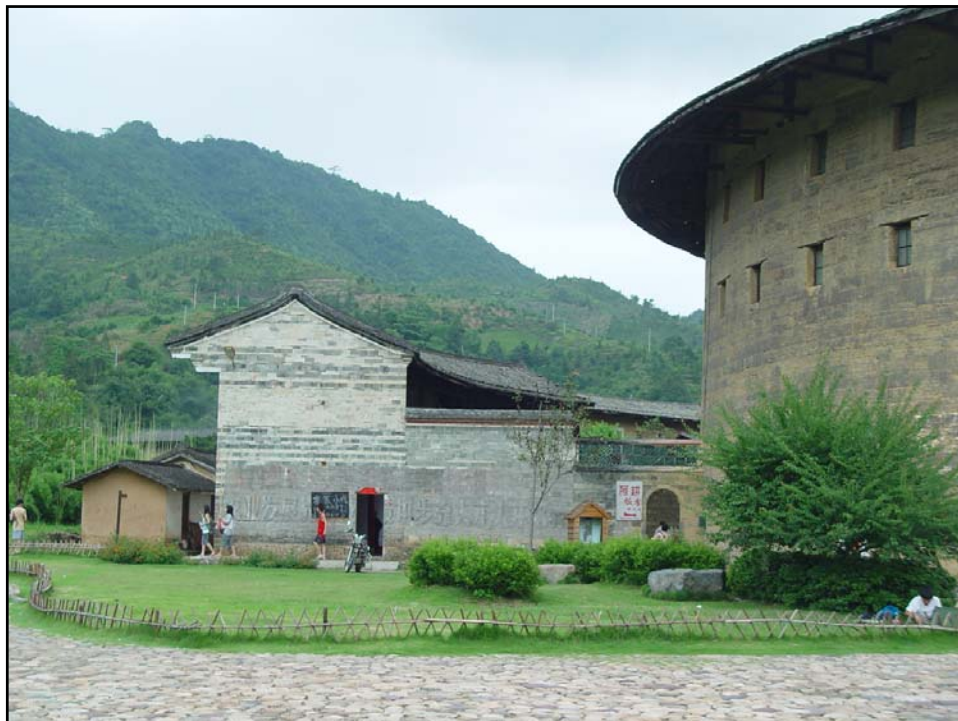
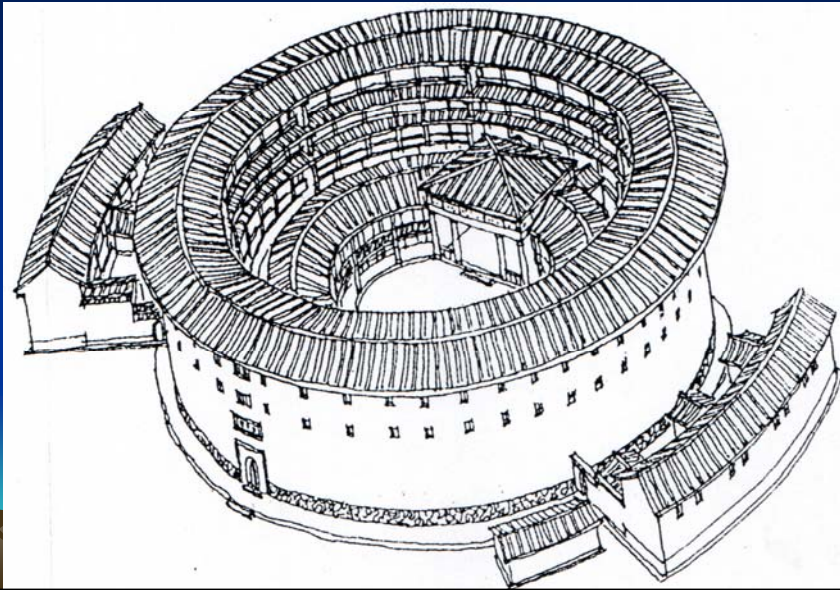


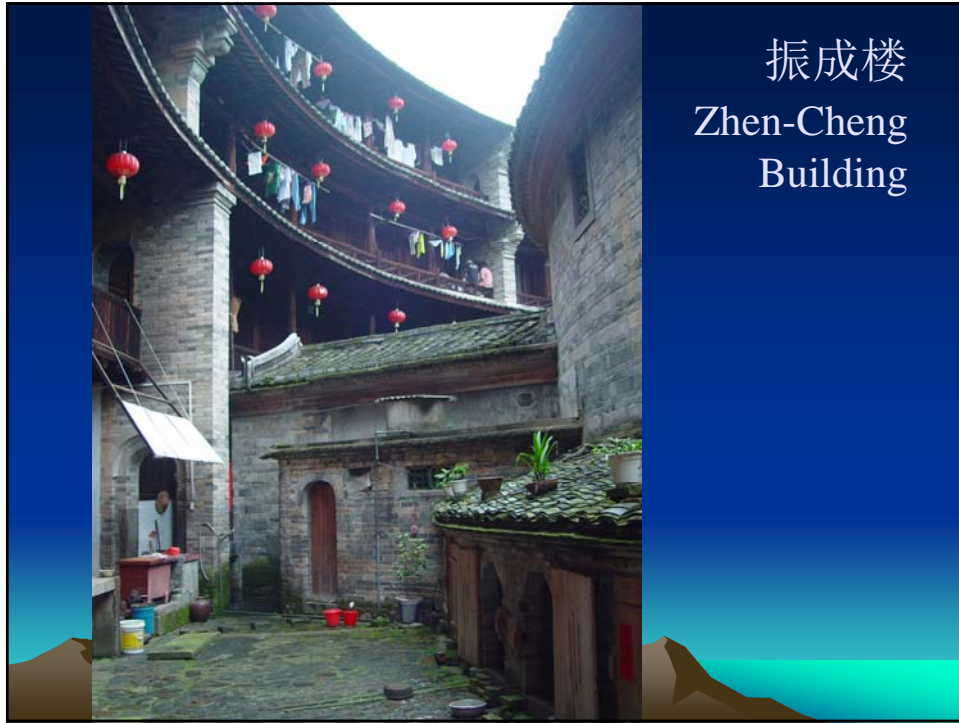


振成楼(永定) Zhen-Cheng Building



振成楼 Zhen-Cheng Building







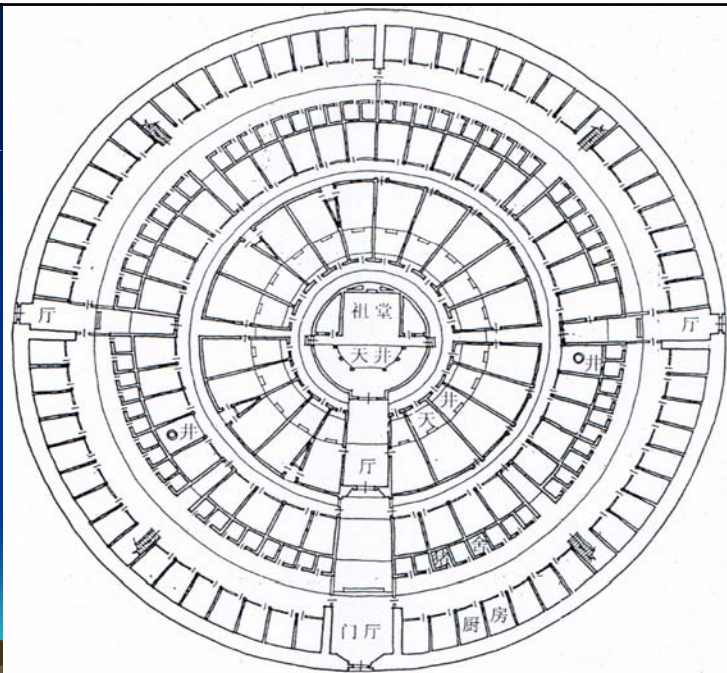
承启楼(永定) Cheng-Qi Building

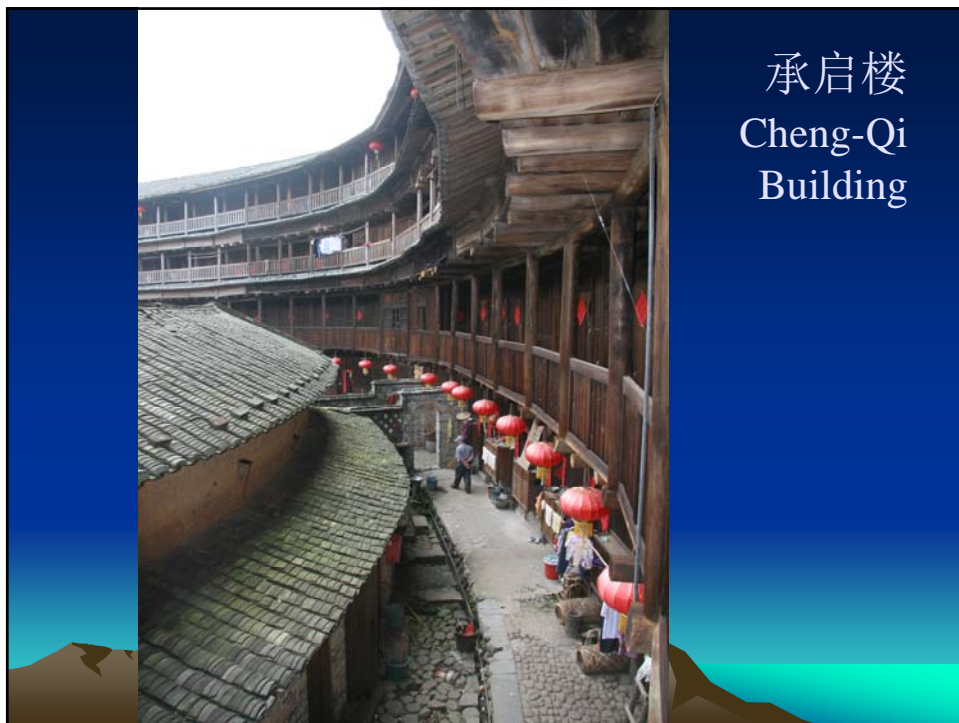
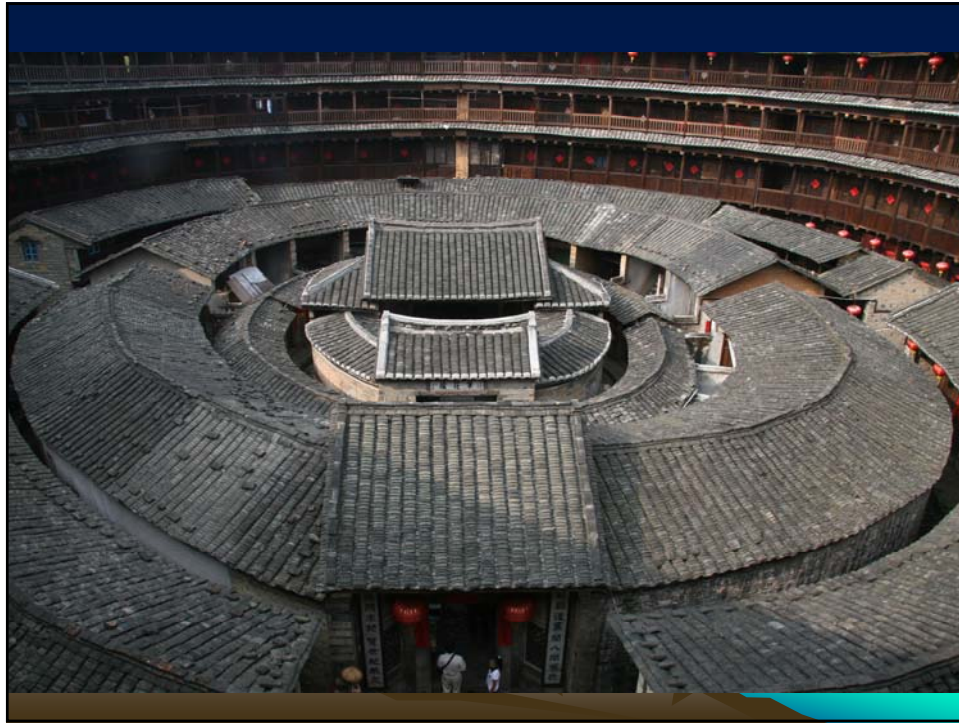


承启楼  
Cheng-Qi  
Building



承启楼  
Cheng-Qi  
Building





承启楼  
Cheng-Qi  
Building

# 田螺坑土楼群(南靖)

## Tian-luo-keng Tulou Cluster

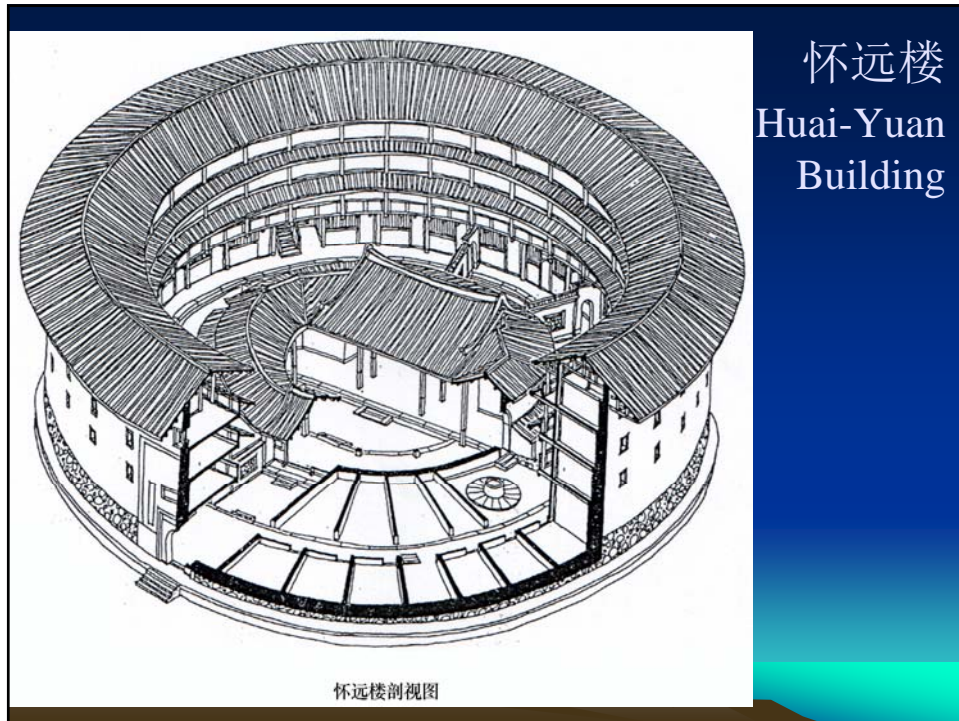




怀远楼(南靖) Huai-Yuan Building

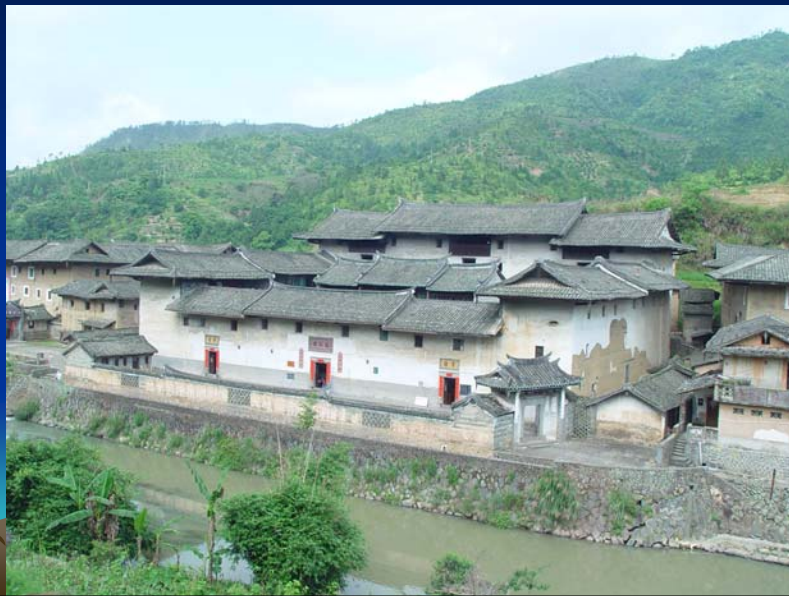




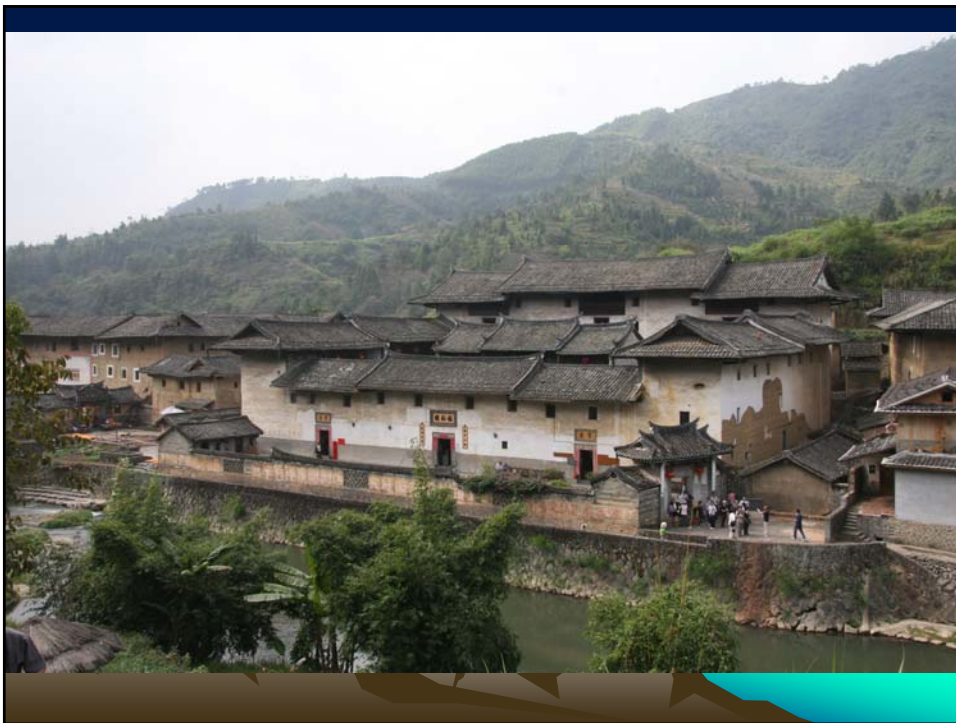
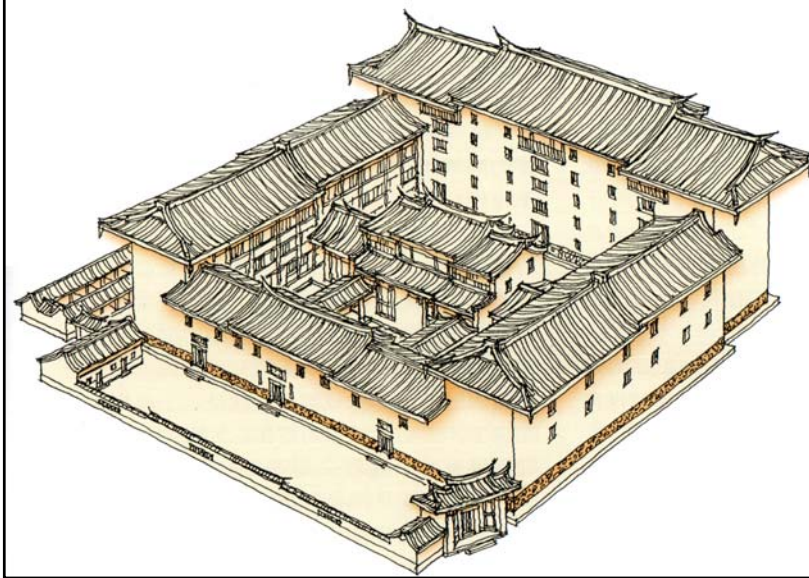


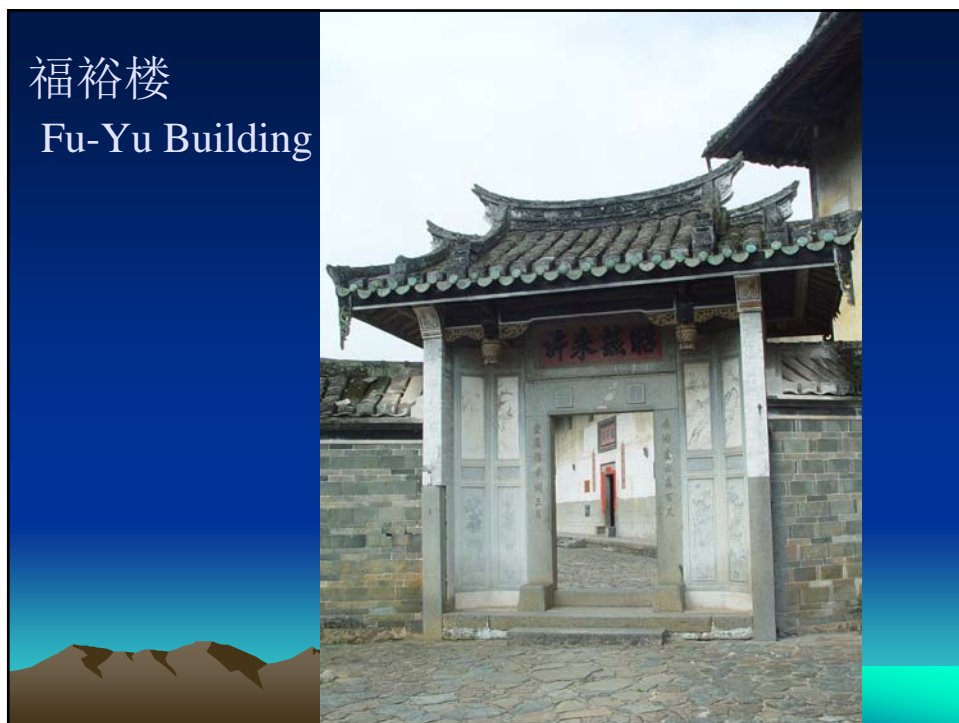
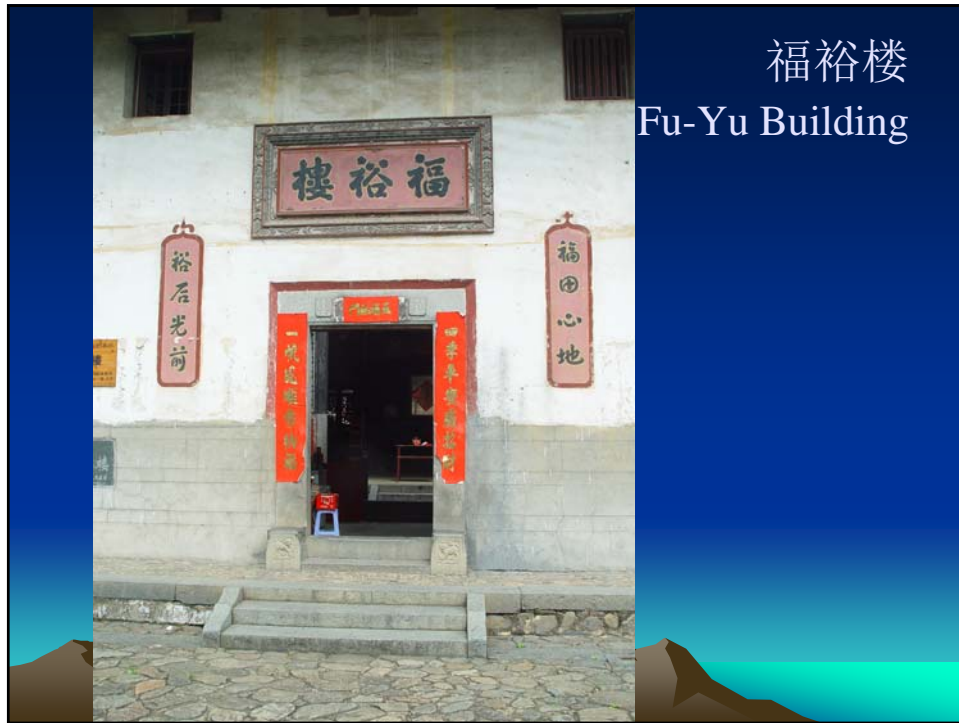


福裕楼(永定) Fu-Yu Building



福裕楼  
Fu-Yu Building



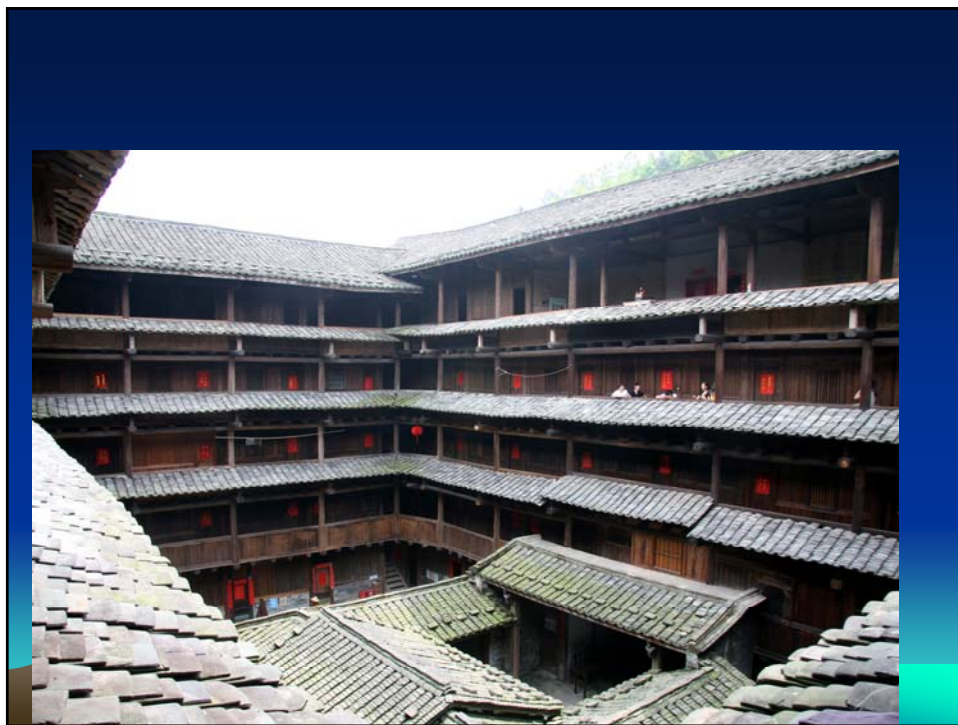
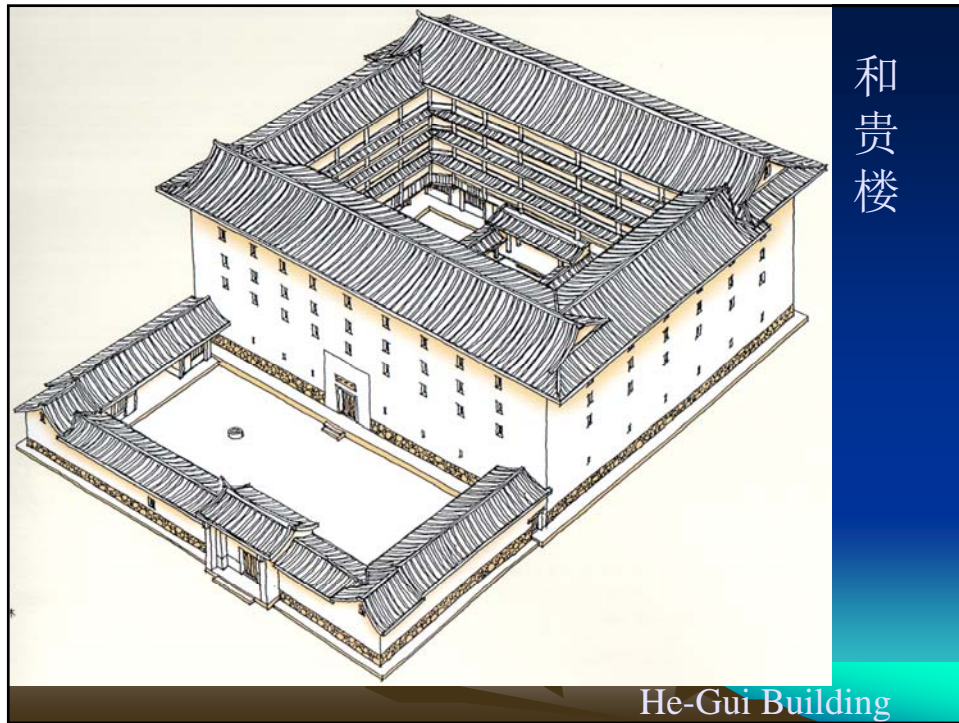


福裕楼  
Fu-Yu Building



和贵楼(南靖)  
He-Gui Building

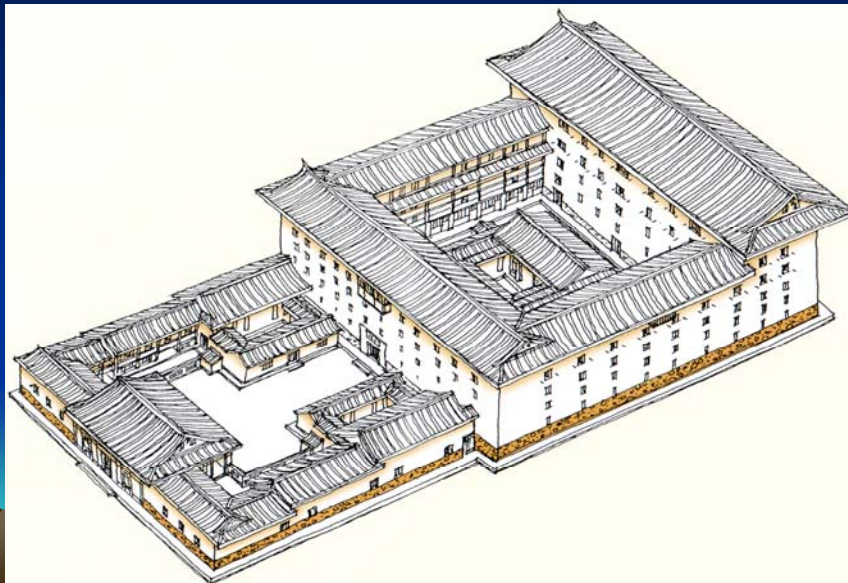




遗经楼(永定)  
Yi-Jing Building



遗经楼 Yi-Jing Building



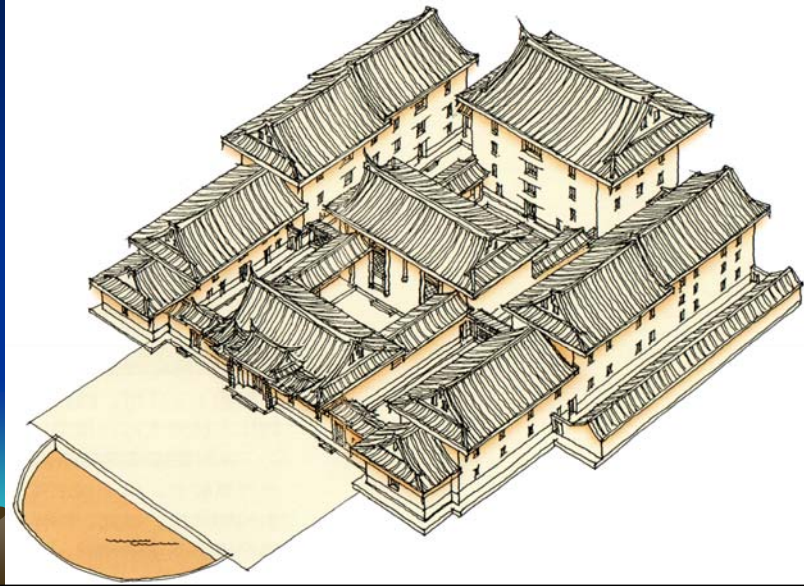


大夫第(永定) Da-Fu Building





大夫第  
Da-Fu Building





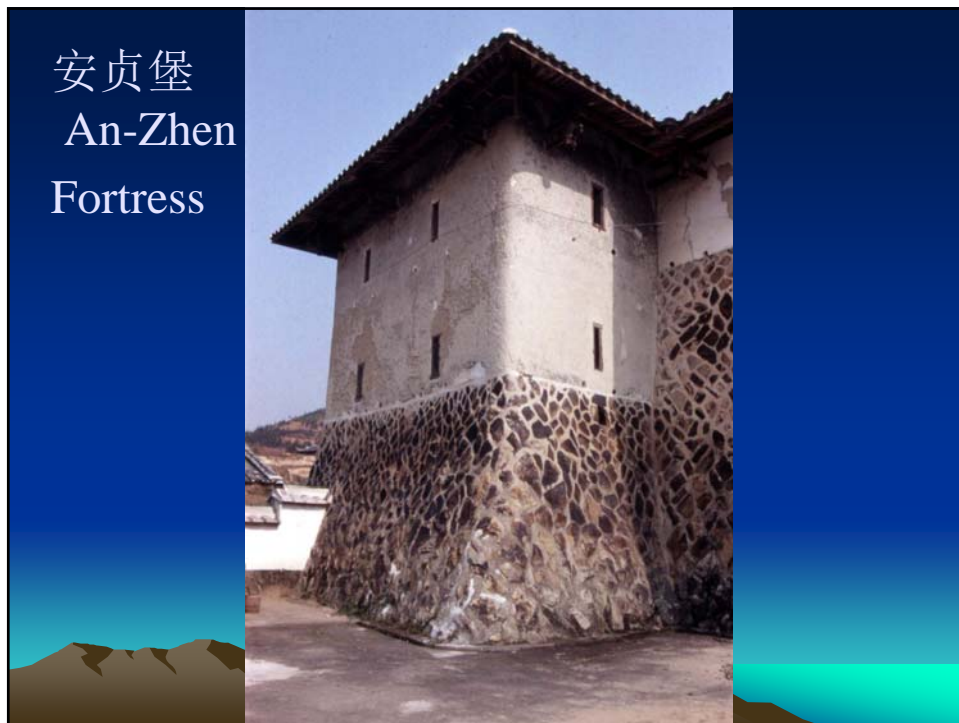
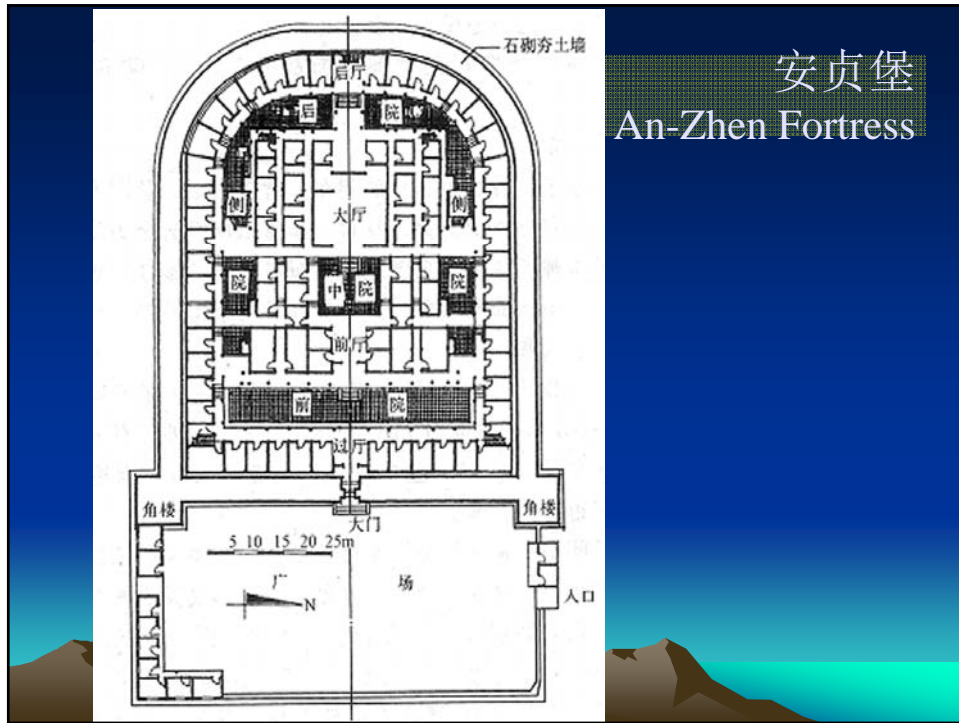
福建土堡

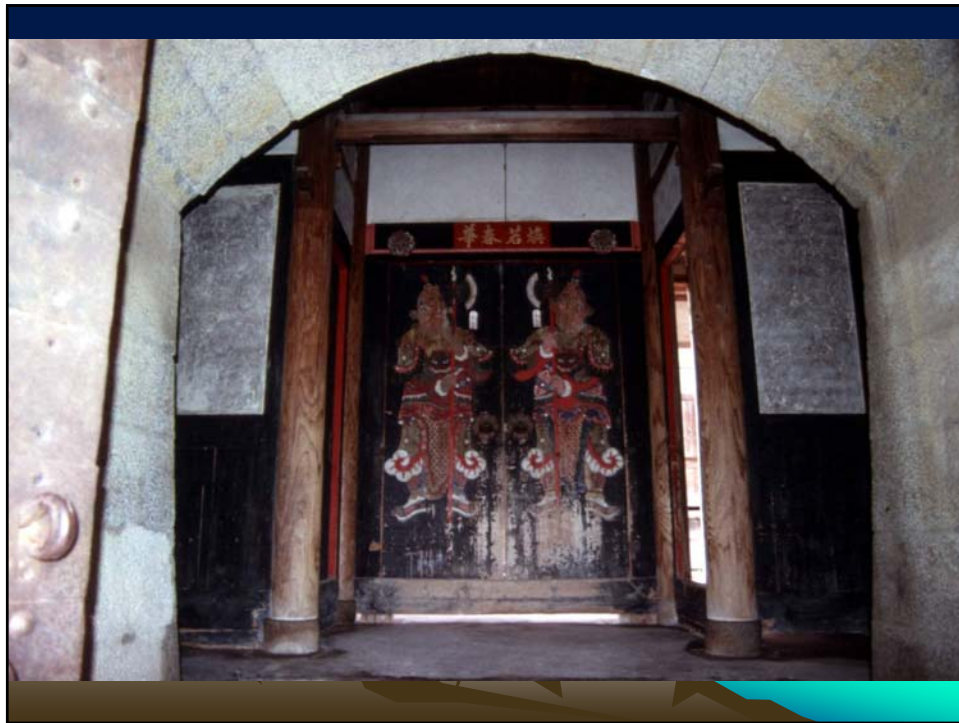
FUJIAN TUBAO



安贞堡(永安) An-Zhen Fortress



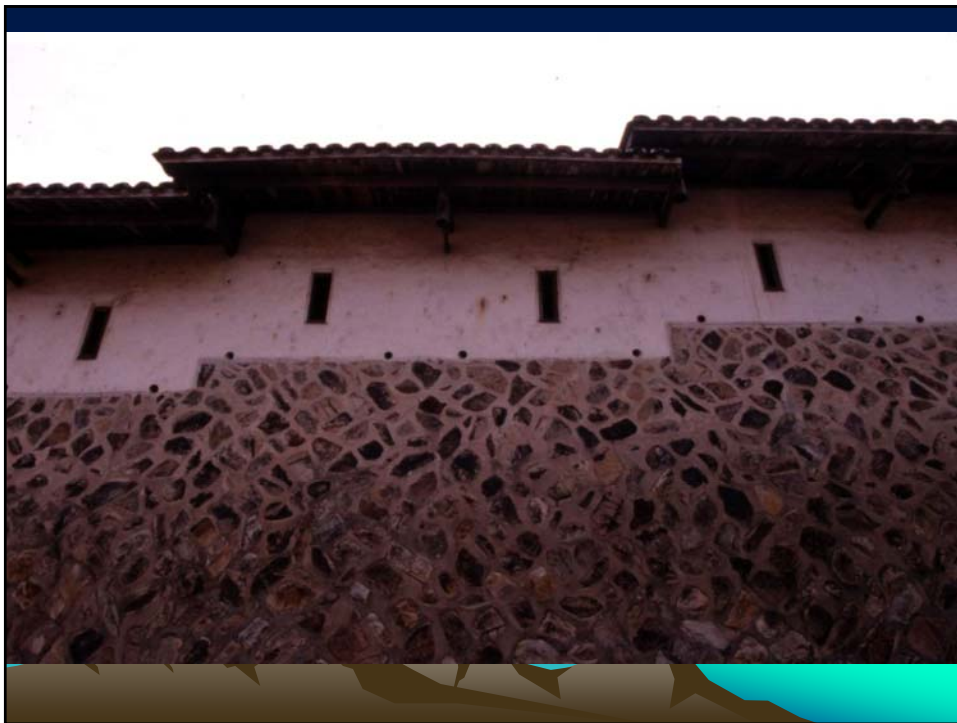




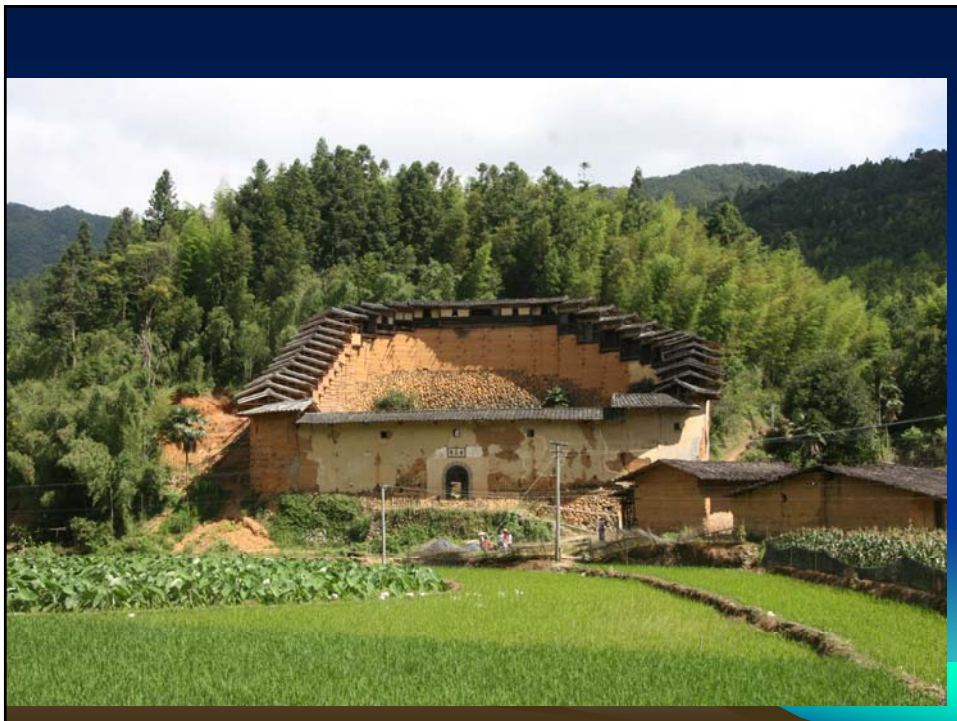
安贞堡  
An-Zhen  
Fortress







安良堡(大田) An-Liang Fortress





安良堡 An-Liang Fortress



安良堡 An-Liang Fortress



泰安堡 (漳平)  
Tai-An Fortress



泰安堡 Tai-An Fortress



泰安堡 Tai-An Fortress



泰安堡 Tai-An Fortress





绍恢堡(大田) Shao-Hui Fortress



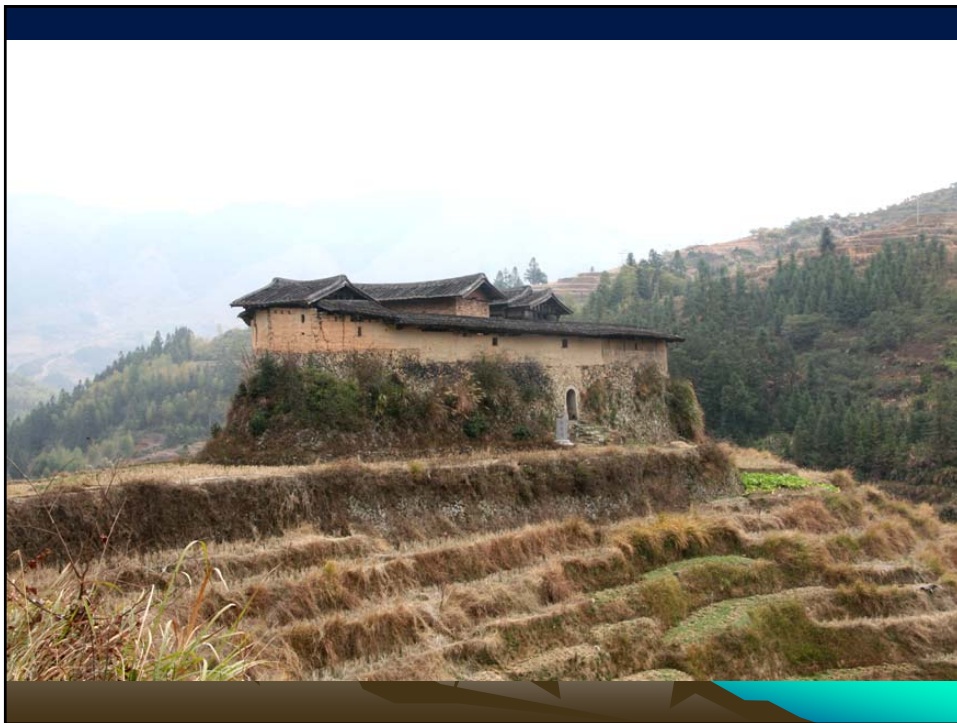
大兴堡(德化) Da-Xing Fortress



凤阳堡(大田)  
Feng-Yang Fortress



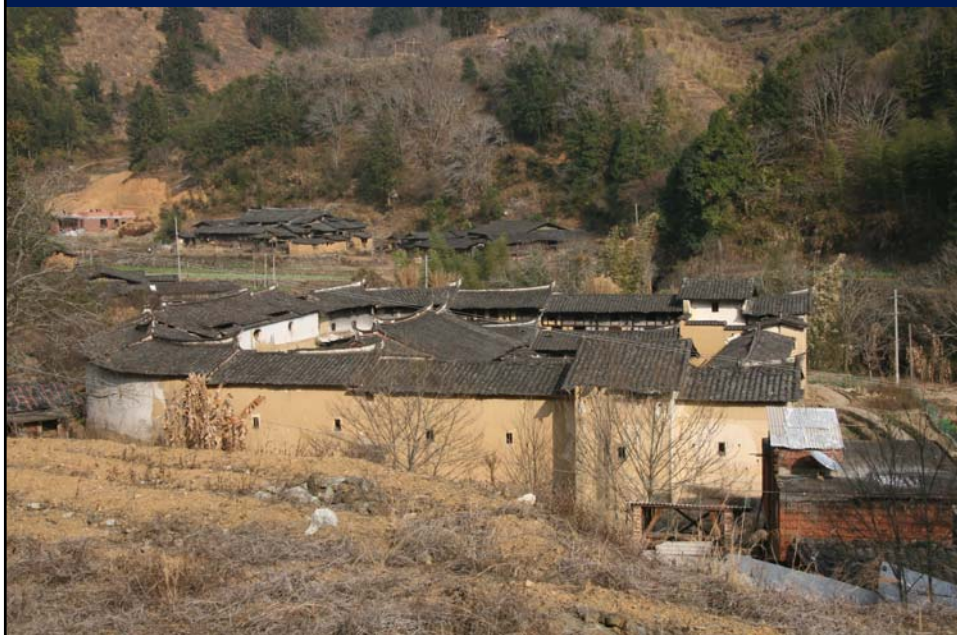
琵琶堡(大田)  
Lute Fortress

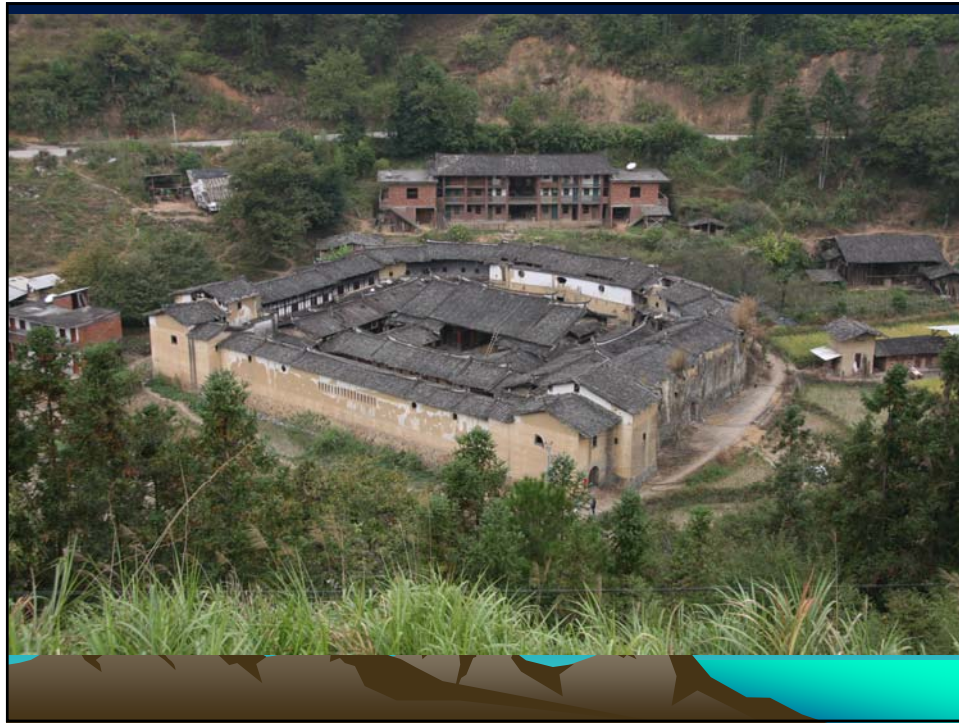


琵琶堡 Lute Fortress



芳联堡(大田) Fang-Lian Fortress





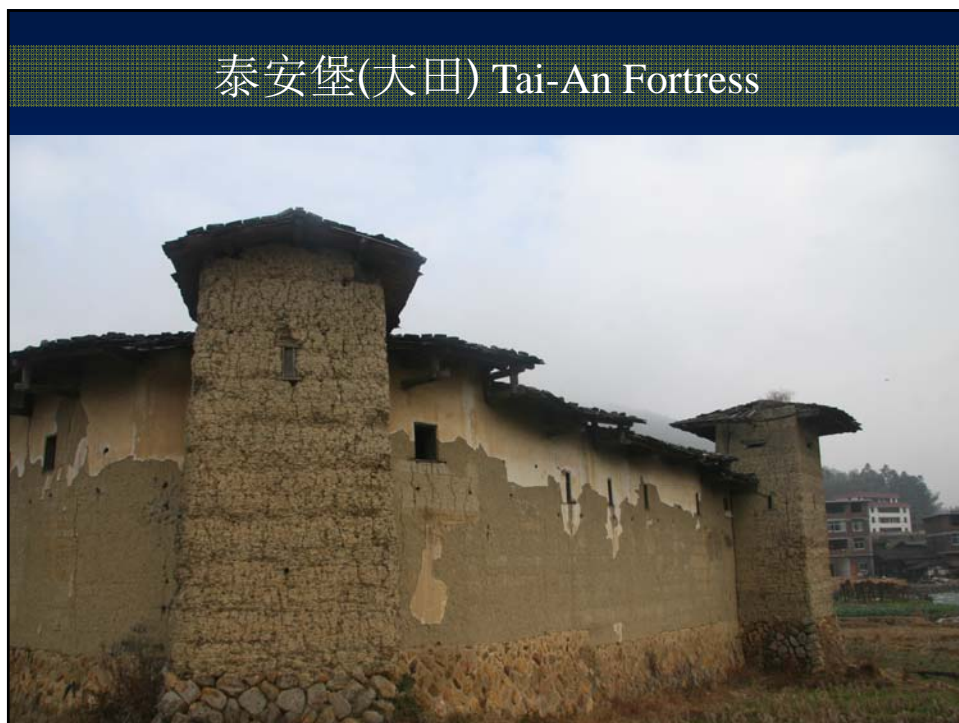
芳联堡  
Fang-Lian  
Fortress



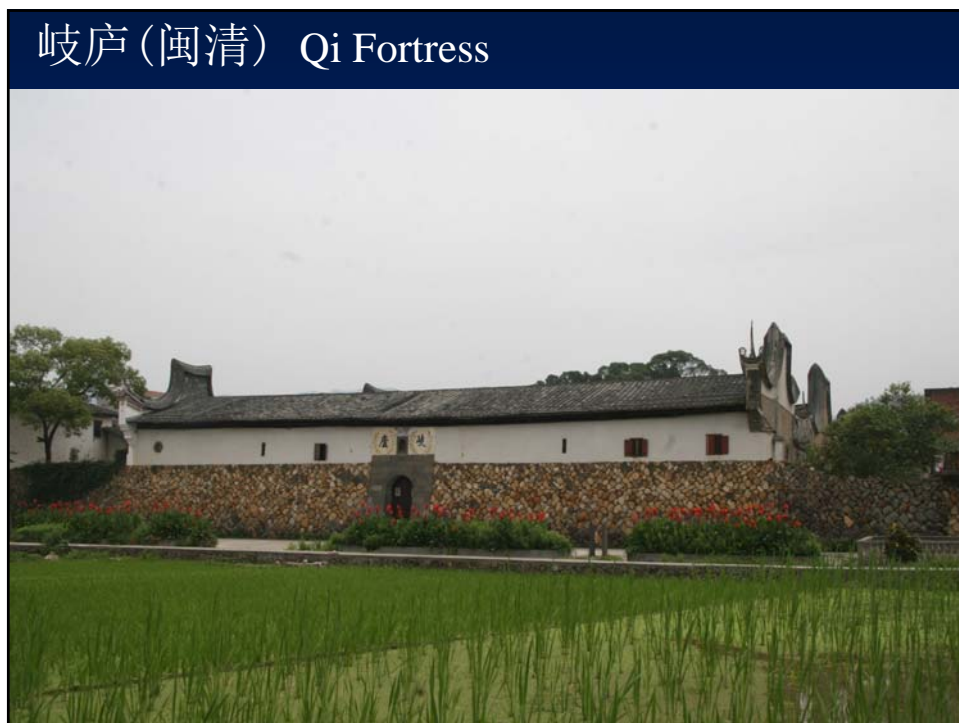


芳联堡

Fang-Lian  
Fortress



泰安堡(大田) Tai-An Fortress



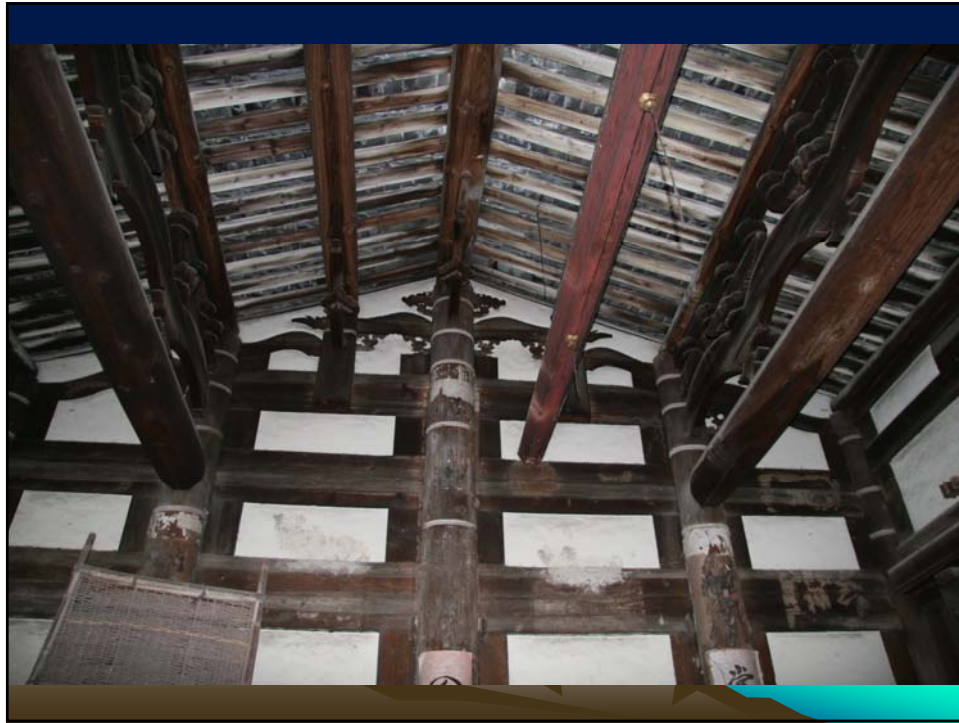


闽清 岐庐 Qi Fortress



青石寨(永泰) Qing-Shi Stockade

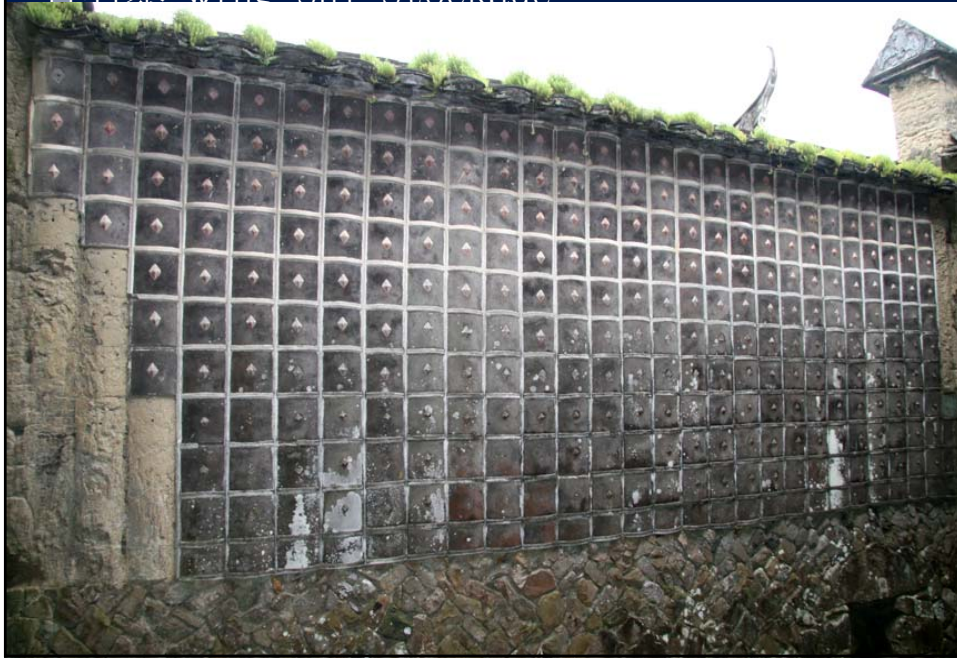




青石寨 Qing-Shi Stockade



青石寨 Qing-Shi Stockade



茂荆堡(尤溪)  
Mao-Jing Fortress



天六堡(尤溪)  
Tian-Liu Fortress



俯看天六堡  
Tian-Liu Fortress seen from the top



瑞庆堡(尤溪)  
Rui-Qing Fortress

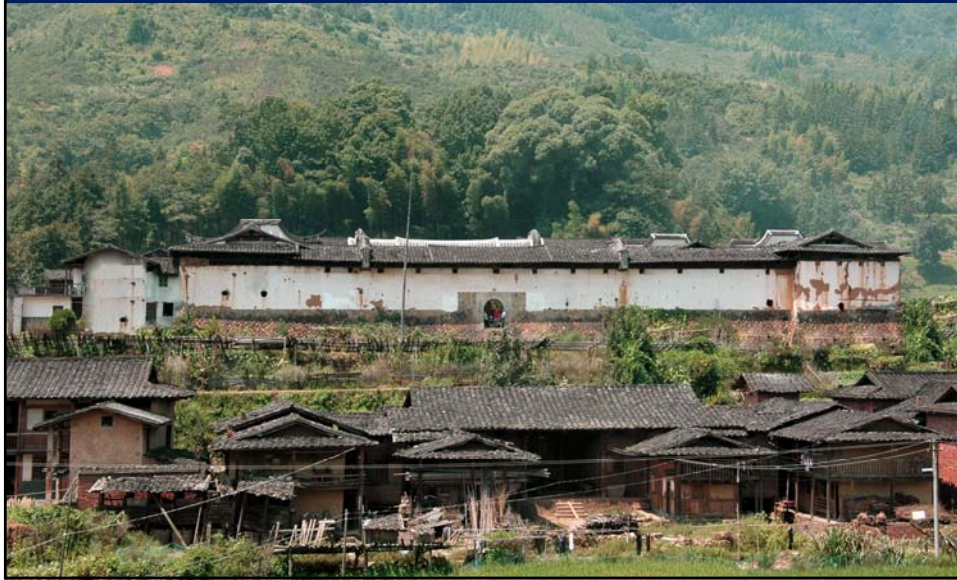


俯看瑞庆堡  
Rui-Qing Fortress seen from the top



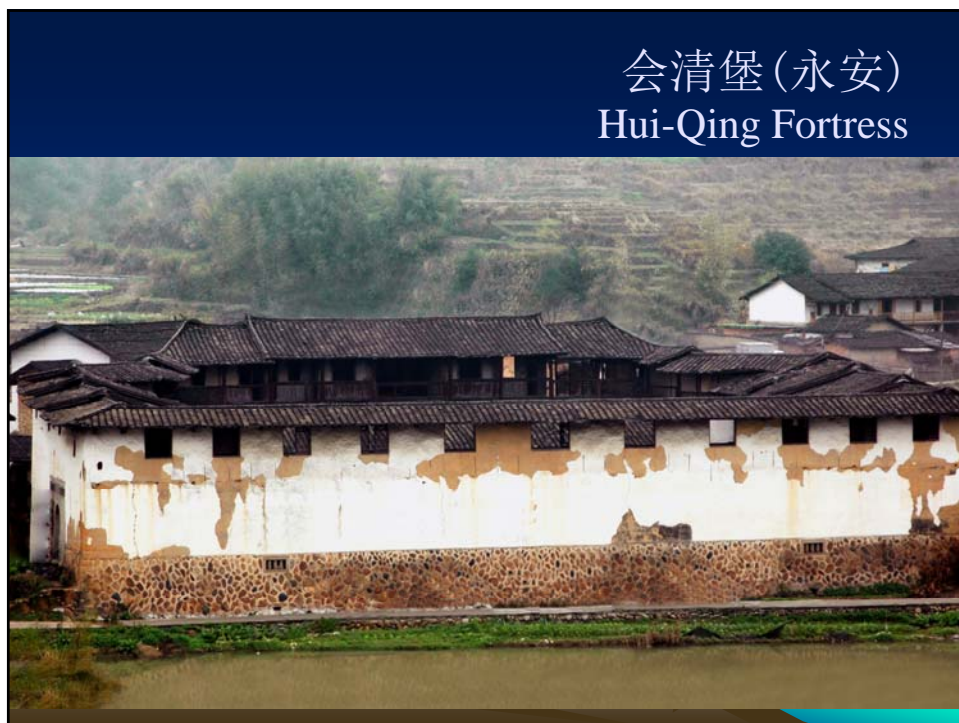
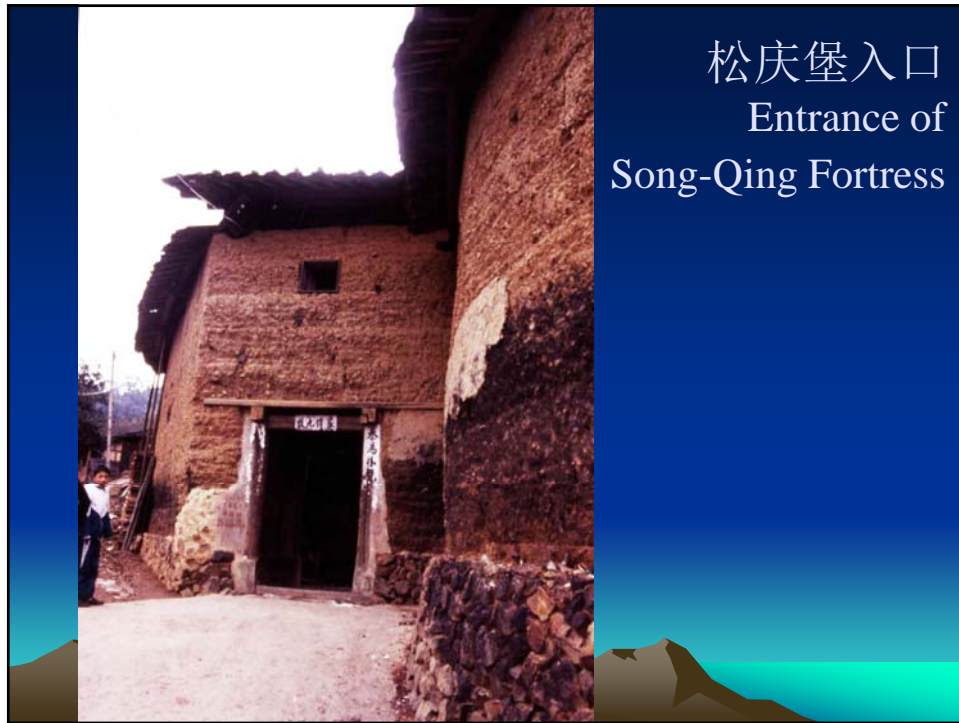


聚奎堡(尤溪)  
Ju-Kui Fortress



松庆堡(三元)  
Song-Qing Fortress





## 福建土堡与福建土楼的同

### Similarities of FuJian Tubao and Tulou

1. 土堡与土楼不仅外观相似，而且都有强大的防御功能。
2. 无论是土堡还是土楼，都有厚实的夯土墙，并设有枪眼和注水孔，通常只设一个大门；
3. 内院设有水井，楼内设谷仓，便于长期驻守。

## 福建土堡与福建土楼的异

### Differences of FuJian Tubao and Tulou

#### 1、始出年代不同 Different construction time

福建三明的土堡隋唐出现，福建土楼始于宋元。土堡的建造时间早于福建土楼。可以说先有三明土堡，后有福建土楼。

## 2、功能分布不同 Different functional distribution

土堡以防御为主，外圈是只起防御设施作用的跑马道，一般只做防卫，很少住人，主要生活空间在内部合院式民居建筑。土楼以居住为主，生活起居位于外圈环楼，集防御住宅于一体。土堡比土楼防御性能更强更完善。

## 3、平面布局不同 Different flat layout

土堡是外部环楼和内部合院式民居的结合，有形状各异、大小不一的小庭院。土楼是单环楼或者多环楼，居住空间沿环周设置，各层设走马廊相通，环楼当中通常有宽敞的广场庭院。

#### 4、墙体材料不同 Different wall materials

土堡的墙体底层为石块砌筑，二层以上用生土夯筑，墙体厚达2-6米，具有宽厚结实的特点。土楼的墙体为熟土夯筑，勒脚为鹅卵石，墙体厚1.5-3米，建筑出檐极大，具有牢固、不易裂、节省居住空间等特点。

#### 5、受力体系不同 Different stress system

土堡的堡墙不作为建筑的受力体，主体建筑多为木结构，根根柱子落地，柱上架檩，柱与柱之间的穿枋上立瓜柱承檩，其传力体系一般为屋面青瓦——瓦下木板——木梁——木柱——基础。土楼的墙体受力承重，内部环楼是穿斗木构架，搭在夯土墙上。

